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Pesticides DOCUMENTATION BULLETIN

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PESTICIDES DOCUMENTATION BULLETIN

Volume 5
August 8, 1969
Number 16

A Bi-Weekly Publication of U.S. Department of Agriculture

OBJECTIVES AND SCOPE

The *Pesticides Documentation Bulletin* is compiled by the National Agricultural Library's Pesticides Information Center to facilitate national research efforts in all aspects of pest control. This bi-weekly index to the literature includes coverage of diseases, insects, nematodes, parasites, weeds and other pests affecting plants, animals, man, our natural resources and other values in man's environment. Special emphasis is given to the literature on toxicological, physiological and epidemiological aspects of pests and their control by chemical biological and integrated methods.

For broader coverage of literature on agriculture and related subjects, please consult the *Bibliography of Agriculture*, a monthly publication of the National Agricultural Library.

FORMAT

The *Bulletin* is a categorized bibliography, with citations arranged alphabetically by author under the following major subjects:

10 Entomology
20 Crop Protection
30 Livestock Protection
40 Commodity Protection
50 Environmental Contamination
55 Residues
60 Toxicology
65 Plant Physiology & Biochemistry
70 Chemistry
80 Engineering
90 Industry

Citations: Each citation consists of an accession number assigned serially with the last two digits representing the Bulletin's issue year, i.e. 3286-67. The citation number (minus the year) is used in all indices. Following the accession number is the full title of the article; all personal authors; an abbreviated journal title; volume, issue and inclusive page numbers; date of publication; language abbreviation, if other than English; and the National Agricultural Library's call number. Subject descriptors, patent or grant numbers, bibliographer's notes, and abstracts or extracts may follow each citation when appropriate.

Subject Index: Subject descriptors appear in the index followed by title arranged numerically by accession number. The Agricultural/Biological Vocabulary developed by the National Agricultural Library is used as a basic thesaurus of descriptors.

Biographical Index: Names of first authors are arranged alphabetically, followed by organizational affiliation and accession number.

Author Index: Names of personal authors are arranged alphabetically, followed by accession numbers of pertinent citations.

Organizational Index: Names of corporate authors or sponsoring organizations are arranged alphabetically followed by accession numbers of pertinent citations.

Other Files

In addition to the citations contained in the Bulletin, the Pesticides Information Center maintains two other files, the INTREDIS Register and the Herbicides Data File.

The INTREDIS Register is a computer data bank in the field of forest pathology. It contains title and author references to abstracted articles including subject, country, host plant genus or species, organisms causing the diseases, abstracting journal and year of publication. The computer search uses boolean parameters in any combination of elements listed.

The Herbicides Data File consists of reports on field tests conducted by the Crops Protection Research Branch, Crop Research Division, Agriculture Research Service. Each test record contains the following items of information:

Compound Tested
Company furnishing the compound
Author or Investigator
Test Sponsor
Date
Location
Mode of Application
Rates of Application
Soil Types
Carriers
Crops or Weeds tested with phytotoxicity ratings
Associated documentation

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ACKNOWLEDGMENT

The Pesticides Information Center, National Agricultural Library, gratefully acknowledges the cooperation and assistance of the Department of Defense; Health, Education, and Welfare; and Interior; the Federal Committee on Pest Control, and state and industrial organizations in the development of the Center and preparation of this Bulletin. Special thanks are expressed to the Federal Committee on Pest Control for its suggestions and support. We hope the Bulletin will serve as an example of the effectiveness of interdepartmental cooperation and the speed with which effective services can be developed through a coordinated and cooperative interdepartmental effort.

Use of funds for printing this publication approved by the Director of the Bureau of the Budget (May 23, 1968).

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This publication reports research involving pesticides. It does not contain recommendations for their use, nor does it imply that the uses discussed here have been registered. All uses of pesticides must be registered by appropriate State and/or Federal agencies before they can be recommended.

CAUTION: Pesticides can be injurious to humans, domestic animals, desirable plants, and fish or other wildlife—if they are not handled or applied properly. Use all pesticides selectively and carefully. Follow recommended practices for the disposal of surplus pesticides and pesticide containers.

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*This issue does not contain citations under this category.

Note: Mention of a company name or a proprietary product does not necessarily imply endorsement by the U.S. Department of Agriculture, NATIONAL AGRICULTURAL LIBRARY, PESTICIDES INFORMATION CENTER.

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J T Hackman
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C H Aastrup
Flora Fauna 75(2):63-64
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Insect taxonomy, Scarabaeidae, Surveys.

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NEOBLEDIUS KARACHIENSIS, A NEW GENUS AND SPECIES OF THE OXYTELINAE (COLEOPTERA: STAPHYLINIDAE) FROM WEST PAKISTAN.
M Abdullah N N Qadri
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Insect taxonomy, Staphylinidae.

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M Abdullah S S Qureshi
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M Abdullah R A Roohi
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M Abdullah S S Qureshi
Pakistan J Sci Indus Res 11(4):423-424
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UNDESCRIBED SPECIES OF NEARCTIC TIPULIDAE (DIPTERA). X.
C P Alexander
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V Balthasar
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R Bankowska
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N H Bennett
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W L Bidlingmayer
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Mar 1968 421 M85
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Abstract: The use of a trap for Mansonia larvae made it possible to collect smaller instars to follow the progression of broods and also make quantitative evaluation of larval densities in different marshes. Environmental factors were investigated and also the effect of temperature and light upon submergence time. The annual life cycle was studied by comparing light trap data with the proportion of different larval instars present each month.

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R E Blackith
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A NEW MEGASELIA FROM HAWAII (DIPTERA: PHORIDAE).
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J M Brennan
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M E Breuer
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APHANOSPERMA, A NEW GENUS OF CERAMBYCIDAE (COLEOPTERA) FROM WOODY FRUITS OF HAKEA SPP. IN AUSTRALIA.
E B Britton
Entomol Soc Australia (nsw) J 8(1):33-36
30 Jun 1969 423.92 EN84
Biological control (weeds), Cerambycidae, Insect taxonomy, Weed control.

Larvae of Aphanosperma occidentalis, n. sp., live within the mature woody fruits of Hakea spp. in south western Australia. The species may be of value for the control of Hakea in South Africa.

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R M Brown
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W J Brown
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W E China
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V T Davies
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Araneae, Imagos, Insect taxonomy.

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J J Davis
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G De Lotto

S Afr J Agr Sci 10(3):781-795 REF
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M P Delfinado
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P Dessart
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J Dlabola
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P R Dorris Y J McGaha
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C F Dos Passos
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Insect taxonomy, Nymphalidae, Zoogeography.

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E A Elbadry
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R Elfving
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A Fain A P Oomen
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M Fischer
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Braconidae, Insect taxonomy, Opius. English abstract.

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W C Gagne
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Insect taxonomy, Miridae, Zoogeography.

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L E Garrett F H Haramoto
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H Gisin
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F D Goodliffe
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M Grasshoff
Senckens Natarforsch Ges Frankfart Main Abhandl (516):100P MAP REF
15 Feb 1968 410.9 SE52
Araneus diadematus, Araneus marmoreus, Araneus pallidulus, Araneus quadratus, Insect identification, Insect morphology, Insect taxonomy, Spiders. English summary.

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THE TAXONOMIC STATUS OF DIALECTICA SOFFNERI (GREGOR AND POVOLNY) AND PARECTOPA CUPEDIELLA (HERRICH-SCHAFFER) (LEPIDOPTERA, LITHOCOLLETIDAE). (GE)
F Gregor D Povolny
Acta Ent Bohemoslov 65(5):391-394
20 Sep 1968 420 C33
Dialectica soffneri, Gracillariidae, Insect identification, Insect taxonomy, Parectopa cupediella. English and Czech summaries.

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J Gronska
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15 Feb 1968 410.9 W26F
Chilopoda, Climate, Forests, Humidity, Insect taxonomy, Zoogeography. German and Russian summary. description of 19 species.

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A TROGLOBITIC STAPHYLINID FROM MEXICO (COLEOPTERA, STAPHYLINIDAE, PAEDERINAE).
L J Herman
Amer Mus Novitates (2367):1-9
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Cave fauna, Insect taxonomy, Staphylinidae.

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DISTRIBUTION OF ANT SPECIES OF HAWAII.
E W Huddleston S S Fluker
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Jun 1968 420 H312
Formicidae, Habitats, Surveys, Zoogeography.

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PICTORAL KEY OF THE ANTS OF HAWAII BASED ON THE WORKER FORMS.
E W Huddleston A A Laplante S S Fluker
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Formicidae, Illustrations, Insect identification, Insect taxonomy.

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FLEAS OF THE SUBFAMILY CTENOPHTHALMINAE (HYSTRICHOPSYLLIDAE, SIPHONAPTERA) IN TAIWAN.
E W Jameson P Y Hsieh
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May 1969 421 J828
Insect taxonomy, Siphonaptera.

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P Johnsen
Flora Faana 75(2):61-
Jun 1969 410 F662
Insect taxonomy, Vespula.

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THE DONACIINAE OF NORTH AFRICA (COL. CHRYSOMELIDAE). (FR)
P Jolivet
Arch Hyg Bakteriol 37(7):307-315 MAP
Sep 1968 505 L992B
Chrysomelidae, Insect biology, Insect ecology, Insect taxonomy, Zoogeography. English summary. description of 7 species of Donacia.

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SCALPONOTATUS, A NEW GENUS NEAR SLATEROCORIS, WITH DESCRIPTIONS OF NEW SPECIES (HETEROPTERA: MIRIDAE).
L A Kelton
Can Entomol 101(1):15-23
Jan 1969 421 C16
Illustrations, Insect anatomy, Insect taxonomy, Miridae, Scalponotatus, Slaterocoris, Strongylocoris. The author lists nine new species of the new genus Scalponotatus. Strongylocoris albibasis is also placed in this genus.

9297-69
RESULTS OF THE ZOOLOGICAL RESEARCH OF DR. Z. KASZAB IN MONGOLIA. 115. HOMOPTERA: PSYLLODEA OF THE III. EXPEDITION. (GE)
S M Klimaszewski
Fragmenta Faunistica 25(8):403-418 REF
01 Mar 1968 410.9 W26F
Homoptera, Insect identification, Insect taxonomy, Psyllidae, Zoogeography. Polish and Russian summaries. description of many other species

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A NEW SPECIES OF BATYLE FROM UTAH (COLEOPTERA: CERAMBYCIDAE).
J N Knull
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Jul 1968 410 OH3
Cerambycidae, Insect taxonomy.

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STUDIES OF THE MEXICAN DELTOCEPHALINE: ALIGIA AND SOME NEW ALLIED GENERA AND SPECIES (HOMOPTERA: CICADELLIDAE).
J P Kramer D M Delong
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May 1968 410 OH3
Cicadellidae, Insect taxonomy.

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SUSA AUDY AND NADCHATRAM, A SUBGENUS OF CHELADONTA LIPOVSKY ET AL., (NEW STATUS). WITH DESCRIPTIONS OF TWO NEW SPECIES OF CHELADONTA FROM THAILAND.
P Lakshana
J Med Entomol 6(2):135-139
May 1969 421 J828
Insect taxonomy, Trombidiidae.

On the basis of 2 new species of chiggers described belowCheladonta (Cheladonta) gouldi and C. (Suga) prachongaethe genus Susa Audy and Nadchatram is reduced to a subgenus and placed within the expanded genus Cheladonta Lipovsky et al. A key to the known species of the subgenus Susa is given.

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HELICONIUS HECALE AND XANTHOCLES IN VENEZUELA (NYMPHALIDAE).
J H Masters
Lepidopterists Soc J 23(2):104-105
29 May 1969 421 L554
Insect taxonomy, Nymphalidae, Surveys.

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SEVERAL NEW TACHINIDAE OF MELANESIA (DIPT., TACHINIDAE). (FR
L P Mesnil
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1968 421 EN835
Insect taxonomy, Tachinidae, Zoogeography. English abstract.

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G H Munshi S A Moiz
Lepidopterists Soc J 23(2):107-108
29 May 1969 421 L554
Insect taxonomy, Larvae, Papilionidae.

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A NEW SUBSPECIES OF PYRRHOPYGE CREOW (HESPERIIDAE) FROM PANAMA.
S S Nicolay G B Small
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29 May 1969 421 L554
Hesperiidae, Insect taxonomy.

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A SAWFLY, CEPHALCIA RETICULATA (L.) (HYMENOPTERA: PAMPHILIIDAE), NEW FOR DENMARK. (DA)
B O Nielsen
Flora Fauna 75(2):65-67 REF
Jun 1969 410 F662
Cephalcia, Insect taxonomy. English abstract.

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THE HETEROPTERA OF THE NETHERLANDS ANTILLES. VI. NOTONECTIDAE.
N Nieser
Hague Stud Fauna Curacao Carrib Islands 24:157-189 MAP REF
1967 411.2 W122
Entomology, Heteroptera, Insect anatomy, Insect taxonomy, Notonectidae, Zoogeography. Nine species are described.

9307-69
BEETLES NEW TO FAUNA OF BABIA GORA MOUNTAINS. (COLEOPTERA). III. (POL)
J Pawlowski
Fragmenta Faunistica 14(10):209-229 REF
15 Mar 1968 410.9 W26F
Coleoptera, Insect taxonomy, Zoogeography. English and Russian summary. 269 species are discussed.

9308-69
CHALCIDOID (HYMENOPTERA) PARASITES OF THE ALFALFA LEAFCUTTER BEE, MEGACHILE ROTUNDATA, IN CANADA.
O Peck
Can Entomol 101(4):418-422 REF
Apr 1969 421 C16
Hymenenoptera, Insect taxonomy, Megachile rotundata, Parasitic insects.

9309-69
CATALOGUE OF THE TYPES IN THE COLLECTIONS OF THE GERMAN ENTOMOLOGICAL INSTITUTE--I. EPHEMEROPTERA, ODONATA, PLECOPTERA. (GE)
G Petersen H Gaedike
Beitr Entomol 18(7-8):959-969
1968 421 B392
Catalogs, Ephemeroptera, Odonata, Plecoptera, Zoogeography. English and Russian abstracts.

9310-69
OCHODAEINAE AND ACANTHOCERINAE FROM THE FAUNISTIC REGION OF ETHIOPIA AND MADAGASCAR. (COLEOPTERA SCARABAEIDAE). (GE)
R Petrovitz
Rev Zool Bot Afr 78(3/4):251-262
30 Dec 1968 410 R26
Acanthocera, Ochodaeinae, Scarabaeidae, Zoogeography. Among others, eight new species are described.

9311-69
SUPPLEMENTAL NOTES ON THE FAR EASTERN BIANNULARIS GROUP OF TABANUS.
C B Philip
J Med Entomol 6(2):197-198
May 1969 421 J828
Insect taxonomy, South-East Asia, Tabanus.

9312-69
CATALOGUE OF NEW WORLD DERMAPTERA (INSECTA). PART I: INTRODUCTION AND PYGIDICRANOIDEA.
H Reichardt
Sao Paulo Dep Zool Papeis Avulsos 21(19):183-193
05 Mar 1968 410.9 SA63
Catalogs, Dermaptera, Insect identification, Insect taxonomy, Pygidicranoidea, Zoogeography.

9313-69
THE RHAPHIDOPHORIDAE (ORTHOPTERA) OF AUSTRALIA. PART 5. THE RHAPHIDOPHORIDAE OF FLINDERS ISLAND.
A M Richards
Linnean Soc New South Wales Proc 92(414,PT 2):151-156
22 Dec 1967 514 SY2
Gryllacrididae, Insect geography, Insect taxonomy, Surveys.

9314-69
DREPANAPHIS PALLIDA, A NEW APHID COLLECTED ON ACER SACCHARUM IN ONTARIO (HOMOPTERA: APHIDIDAE).
W R Richards
Can Entomol 101(1):107-108
Jan 1969 421 C16
Acer saccharum, Aphididae, Drepanaphis granovskyi, Drepanaphis pallida, Insect anatomy, Insect identification, Insect morphology, Insect taxonomy, Zoogeography.

9315-69
A NEW SPECIES OF TUBERCULATUS FROM TURKEY, WITH REVISIONARY, DESCRIPTIVE NOTES ON TUBERCULOIDES (HOMOPTERA: APHIDIDAE).
W R Richards
Can Entomol 101(1):51-61
Jan 1969 421 C16
Aphididae, Insect anatomy, Insect morphology, Insect taxonomy, Tuberculatus, Tuberculoides, Zoogeography.

9316-69
THE LARVAE OF AUSTRALIAN IXODIDAE (ACARINA: IXODOIDEA).
F H S Roberts
Entomol Soc Australia (nsw) J 8(1):37-78 REF
30 Jun 1969 423.92 EN84
Insect identification, Ixodidae, Larvae, Surveys.

9317-69
THE PROBLEM OF INSECT IDENTIFICATION AND THE UNIVERSITY OF ARKANSAS REFERENCE COLLECTION.
E P Rouse
Ark Acad Sci Proc 21:45-48
1967 500 AR42
Insect collection, Insect identification, Insect taxonomy, Research, Sarcophagidae.

9318-69
DETERMINATION OF MOSQUITO HOSTS IN SALT MARSH AREAS OF LOUISIANA.
R E Schaefer C D Steelman
J Med Entomol 6(2):131-134 REF
May 1969 421 J828
Aedes sollicitans, Animals, Culicidae, Insect feeding, Surveys.

9319-69
THE BANANA CORM WEEVIL, COSMOPOLITES SORDIDUS IN THE COCOA REGION OF BAHIA, BRAZIL.
P Silva J M De Abreu
China Plant Protect Bull 16(6):111-113 MAP REF
Dec 1968 464.9 C47
Cosmopolites sordidus, Surveys, Zoogeography.

9320-69
NOTE ON THE CHANGE OF A SPECIFIC NAME OF NEW GUINEA CULEX (LOPHOCERAOMYIA) (DIPTERA: CULICIDAE).
S Sirivanakarn
J Med Entomol 6(2):119
May 1969 421 J828
Culex, Insect names, Insect taxonomy.

9321-69
THE AEDES MOSQUITOES OF NEW ENGLAND (DIPTERA: CULICIDAE). II. LARVAE: KEYS TO INSTARS, AND TO SPECIES EXCLUSIVE OF FIRST INSTAR.
M E Smith
Can Entomol 101(1):41-51 REF
Jan 1969 421 C16
Aedes, Culicidae, Insect identification, Insect taxonomy, Larvae, Zoogeography.

9322-69
PARASARCOPHAGA (CURRANEA) TIBIALIS (MACQUART, 1850) A NEW SPECIES FOR THE CZECHOSLOVAK FAUNA (DIPTERA).
M Stanek
Acta Ent Bohemoslov 65(5):395-396 REF
20 Sep 1968 420 C33
Insect identification, Insect taxonomy, Parasarcophaga, Sarcophagidae. Czech summary.

9323-69
HAWAIIAN TOXORHYNCHITES (DIPTERA: CULICIDAE).
W A Steffan
Hawaii Entomol Soc Proc 20(1):141-155
Jun 1968 420 H312
Insect taxonomy, Toxorhynchites, Zoogeography.

9324-69
OCCURRENCE OF THYMELICUS LINEOLA (HESPERIIDAE) IN VIRGINIA.
G B Straley
Lepidopterists Soc J 23(2):76
29 May 1969 421 L554
Hesperiidae, Zoogeography.

9325-69
TAXONOMIC AND BIOLOGICAL STUDIES OF HAWAIIAN SPHAEROCERIDAE (DIPTERA).
J A Tenorio
Hawaii Entomol Soc Proc 20(1):169-212 REF
Jun 1968 420 H312
Insect biology, Insect taxonomy, Sphaeroceridae, Zoogeography.

9326-69

9326-69
TWO NEW SPECIES OF LEPTOCERA OLIVIER FROM HAWAII (DIPTERA: SPHAEROCERIDAE).
J A Tenorio
Hawaii Entomol Soc Proc 19(3):425-429
Jun 1967 420 H312
Insect taxonomy, Sphaeroceridae, Zoogeography.

9327-69
CONCORDANCE AND DISCORDANCE OF TAXONOMIC CHARACTERS IN DROSOPHILA CLASSIFICATION.
L H Throckmorton
Syst Zool 17(4):355-387
Dec 1968 410 SY8
Drosophila, Insect taxonomy, Methodology, Statistical analysis.

9328-69
ARTHROPODA ASSOCIATED WITH A NEST OF THE HAWAIIAN CROW.
P Q Tomich
Hawaii Entomol Soc Proc 19(3)431-432
Jun 1967 420 H312
Arthropoda, Bird nests, Insect ecology, Surveys.

9329-69
SYSTEMATIC INVESTIGATIONS ON EAST-INDIAN AND AUSTRALIAN HEMIPEPSIS. VIII. ON THE SPECIES OF THE SUB-GENUS MOROPEPSIS BANKS, 1934 (HYMENOPTERA POMPILIDAE, PEPSINAE). (FR
R Wahis
Inst Roy Sci Natur Belg Bull 42(12):17P REF
26 Oct 1966 504 B835B
Hemipepsis, Insect taxonomy, Pompilidae, Zoogeography.

9330-69
BOLORIA POLARIS (NYMPHALIDAE) IN NORTHERN BRITISH COLUMBIA.
R E Woodley
Lepidopterists Soc J 23(2):113-115
29 May 1969 421 L554
Insect taxonomy, Nymphalidae, Zoogeography.

9331-69
SYSTEMATIC STUDIES OF THE CENTRAL EUROPEAN SPECIES OF THE GENUS AUSTROMENOPON BEDF. (MALLOPHAGA, AUSTROMENOPONINAE). (GE)
J Zlotorzycka
Pol Pismo Entomol 38(2):301-340 REF
1968 421 P76
Austromenopon, Birds, Insect taxonomy, Mallophaga, Menoponidae, Parasitic insects, Zoogeography. Polish summary. 43 species and their host animals are discussed.

PHYSIOLOGY AND BIOCHEMISTRY

9332-69
REARING THE FOREST TENT CATERPILLAR ON AN ARTIFICIAL DIET.
N D Addy
J Econ Entomol 62(1):270-271
17 Feb 1969 421 J822
Diet, Experimental insects, Insect nutrition, Insect physiology, Insect rearing, Malacosoma disstria, Microbial contamination, Mortality.

9333-69
THE BREEDING OF PLANOCOCCUS CITRI (HOMOPTERA; PSEUDOCOCCIDAE) ON SPROUTING POTATO.
A Z Al-Ali
Roy Entomol Soc London Proc Ser A Gen Entomol 44(1-3):45-47
22 Apr 1969 420 L84PA
Insect rearing, Life cycle, Planococcus citri, Potatoes.

9334-69
A STUDY OF THE HIBERNATION OF BUMBLEBEES (HYMENOPTERA: BOMBIDAE) IN SOUTHERN ENGLAND.
D V Alford
J Anim Ecol 38(1):147-170 REF
Feb 1969 410 J826
Bombinae, Habitats, Hibernation, Insect behavior, Insect ecology, Insect physiology, Surveys.

9335-69
BIOLOGICAL EXAMINATION OF PSYLLIODES CHRYSOCEPHALA L. (BU)
R Angelova
Vissh Selskostopanski Inst Vasil Kolarov Nauch Tr 16(2):229-240
1967 106.3 P72
Chrysomelidae, Diapause, Insect biology, Insect morphology, Insect pests, Larvae, Oviposition, Psylliodes chrysocephala, Vegetables. German and Russian summaries.

9336-69
CAPSULE CONTROLS FIRE ANT.
Anonymous
Tennessee Farmer 16(2):4F
Feb 1969 S115.T42
Baits, Chemical control (insects), Chlorinated hydrocarbons, Insect pests, Insecticides, Mirex, Solenopsis geminata, Venoms, Zoogeography.

9337-69
BATTLE AGAINST THE CORN BORER.
Anonymous
Tennessee Farmer 16(2):27
Feb 1969 S115.T42
Corn, Enzymes, Glycosides, Insect pests, Ostrinia nubilalis, Plant biochemistry. Insect feeding thought to set off reaction between plant enzymes and glucoside, producing DIMBOA which rapidly breaks down into MBOA.

9338-69
BIG CODLING MOTH CONTROL PROJECT IN CANADA.
Anonymous
Orchardist New Zealand 41(10):368,370
Nov 1968 80 OR19
Biological control (insects), Carpocapsa pomonella, Fruit, Insect pests, Irradiation, Sterility.

9339-69
PERIODICITY IN THE PROPORTIONS OF HAEMOCYTE CATEGORIES IN THE GIANT COCKROACH, BLABERUS GIGANTEUS.
J W Arnold
Can Entomol 101(1):68-77
Jan 1969 421 C16
Blaberus giganteus, Cytoplasm, Haemocytes, Insect behavior, Laboratory animals, Light, Photoperiodism, Serum.

9340-69
THE PROBLEM OF THE OOTHECA SECRETION IN ORTHOPTEROIDS IN THE LIGHT OF THE MOST RECENT ACQUISITIONS. (IT)
B Baccetti
Accad Naz Ital Entomol Atti 8:112-136 REF
1960 420 AC2
Acridoidea, Colleterial glands, Epithelium, Glands (insects), Insect biochemistry, Insect eggs, Insect physiology, Orthoptera, Oviducts, Secretion. English summary.

9341-69
PRELIMINARY RESULTS OF A NEW SEASONAL INVESTIGATION ON BROOK HYDRACARINAE (ACARI-TROMBIDIFORMES). (GE)
C Bader
Rev Suisse Zool 75(3):498-505
Sep 1968 410 R324
Aquatic insects, Hydrachnellae, Hygrobates fluviatilis, Insect biology, Insect ecology, Insect populations, Mites, Panisus michaeli, Sex ratios, Sperchon glandulosus, Trombidiformes, Zoogeography.

9342-69
OBSERVATIONS ON THE PARASITES (HYMENOPTERA, DIPTERA) OF TRICHOTAPHE LEVISELLA FYLES (GELECHIIDAE, LEPIDOPTERA) WITH NOTTES ON THE HOST.
W V Balduf
Ohio J Sci 69(1):36-52
Jan 1969 410 OH3
Braconidae, Eulophidae, Gelechiidae, Ichneumonidae, Insect biology, Predaceous insects, Pteromalidae, Tachinidae.

9343-69
A SUCTION-ELECTRODE STUDY OF THE HOUSE FLY HEART.
R C Ballard M S Hall
Entomol Soc Amer Ann 62(2):375-379 REF
Mar 1969 420 EN82
Dorsal vessel, Electrophysiology, Musca domestica.

9344-69
ALKALI BEES: RESPONSE OF ADULTS TO PATHOGENIC FUNGI IN BROOD CELLS.
S W T Batra G E Bohart
Science 165(3893):607-608 REF
08 Aug 1969 470 SC12
Aspergillus, Aspergillus flavus, Entomogenous fungi, Fusarium solani, Insect behavior, Insect diseases, Larvae, Mucor, Nomia melanderi, Rhizopus, Social insects, Spore germination.

9345-69
COMPARATIVE ACTION OF AN OLIGO-INFECTION OF BACILLUS THURINGIENSIS AND OF TOTAL STARVATION ON THE WATER, LIPID, AND NITROGEN CONTENTS OF A LEPIDOPTERAN. (FR)
L Baud
Entomophaga 13(3):229-231
1968 421 EN835
Bacillus thuringiensis, Bombyx mori, Insect metabolism, Lipids, Nitrogen, Water. English abstract.

9346-69
PARATHION AND LINDANE IN THE CONTROL OF THE SPRUCE GALL APHID. (FR)
R Baurant E Seutin A Plasman R Caussin
Bull Recherch Agron Gembloux (N s)3(1):3-14
1968 S5.B8
Adelges, Chemical control (insects), Chermes tardus, Insect behavior, Insect biology, Insecticide application, Insecticide residues, Lindane, Parathion, Picea. English and German summaries.

9347-69
PRELIMINARY STUDIES ON THE ISOLATION OF PTERINS FROM THE WINGS OF HELICONIID BUTTERFLIES.
J G Baust
Zoologica (New York) 52(1,SPRING):15-20 REF
1967 410 Z722
Amino-4-pteridinol, 2-, Insect biochemistry, Lepidoptera, Wings (insects).

9348-69
AMMONIUM-INDUCED TERMINATION OF DIAPAUSE IN THE EUROPEAN CORN BORER, OSTRINIA NUBILALIS.
S D Beck J L Shane J A Garland
J Insect Physiol 15(6):945-951 REF
Jun 1969 421 J825
Ammonium acetate, Ecdysone, Insect physiology, Ostrinia nubilalis.

9349-69
A DECADE WITH THE ALFALFA WEEVIL IN TENNESSEE.
S E Bennett
Tenn Agr Exp Sta Bull (446):33P MAP REF
Oct 1968 100 T25S (1)
Alfalfa, Biological control (insects), Chemical control (insects), Cultural control (insects), Hypera postica, Insect pests, Insect physiology.

9350-69
A NOTE ON THE COMPARATIVE BIOLOGY OF SOME ITALIAN CASSIDAE. (COL., CHRYSOMELIDAE). (IT)
C Bibolini
Accad Naz Ital Entomol Atti 8:180-190
1960 420 AC2
Cassida algirica, Cassida rubiginosa, Cassida viridis, Chrysomelidae, Hibernation, Host indexing (plants), Insect biology, Insect physiology, Zoogeography. English summary.

9351-69
A THESIS BY G. STREBLER ON THE GALL MIDGE OF ALFALFA. (FR)
L Bonnemaison
Phytoma 20(199):37-39
Jun 1968 464.8 P563
Alfalfa, Cecidomyiidae, Contarinia medicaginis, Insect biology, Insect ecology, Insect morphology, Parasitic insects. Review of doctoral dissertation by Strebler entitled: Etude d'un itonidide cecidogene (Contarinia medicaginis Kieffer) et son hote.

9352-69
PRELIMINARY RESULTS OF THE REARING OF A HYMENOPTEROUS CHALCID (PTEROMALUS PUPARUM L.) ON THE HEMOLYMPH OF A LEPIDOPTERAN.
M Bouletreau
Entomophaga 13(3):117-122
1968 421 EN835
Hemolymph, Insect nutrition, Insect rearing, Pieris brassicae, Pteromalidae. English abstract.

9353-69
EFFECTS OF DIETARY AMINO ACIDS, SALTS, AND PROTEIN STARVATION ON FECUNDITY OF THE PARASITOID EXERISTES COMSTOCKII (HYMENOPTERA: ICHNEUMONIDAE).
G K Bracken
Can Entomol 101(1):91-96 REF
Jan 1969 421 C16
Amino acids, Diet, Exeristes comstockii, Fertility, Ichneumonidae, Insect eggs, Parasites, Proteins, Salts, Starvation.

9354-69
PHEROMONE-MEDIATED BEHAVIOUR LEADING TO GROUP OVIPOSITION IN THE BLOWFLY LUCILIA CUPRINA.
L B Browne R J Bartell H H Shorey
J Insect Physiol 15(6):1003-1014 REF
Jun 1969 421 J825
Insect behavior, Olfactory response, Oviposition, Phaenicia cuprina, Pheromones, Sex.

Females of Lucilia cuprina oviposit in groups, the formation of which depends, in part, on the responses of females to stimulation from other flies. This stimulation is important in causing females to oviposit and in influencing them to lay near already ovipositing females. Both types of action have a strong contact component; in addition, there is a weaker olfactory component which plays some part in the aggregative response.

9355-69
HORMONAL INHIBITION OF THE PROTHORACIC GLAND BY THE BRAIN IN LOCUSTS.
D B Carlisle P E Ellis
Nature 220(5168):706-707 REF
16 Nov 1968 472 N21
Brain, Glands (insects), Hormones, Insect physiology, Locusta migratoria migratorioides, Prothoracic glands, Ribonucleic acid, Schistocerca gregaria.

9356-69
HEIGHT PREFERENCES FOR OVIPOSITION OF APHIDOPHAGOUS SYRPHIDAE (DIPTERA).
A E F Chandler
Entomophaga 13(3):187-195
1968 421 EN835
Aging, Insect behavior, Oviposition, Parasitic insects, Syrphidae

9357-69
ASEPTIC REARING OF COPROPHAGOUS BEETLE: APHODIUS CONSTANS DUFT. (COL., SCARABAEIDAE). (FR)
R Charpentier
Ann Epiphyt 19(3):533-538 REF
1968 464.9 F84AN
Aphodius, Germ-free life, Insect rearing, Methodology. English abstract.

9358-69
THE LIGHT THRESHOLD CONTROLLING THE PERIODICITY OF INVERTEBRATE DRIFT.
I Chaston
J Anim Ecol 38(1):171-180
Feb 1969 410 J826
Aquatic insects, Diurnal rhythm, Insect dissemination, Larvae, Light.

9359-69
THE DISTRIBUTION OF FACTOR S IN THE COCKROACH, PERIPLANETA AMERICANA, AND ITS ROLE IN STRESS PARALYSIS.
B J Cook M De la Cuesta J G Pomonis
J Insect Physiol 15(6):963-975 REF
Jun 1969 421 J825
Biological assay, Insect physiology, Musca domestica, Nervous system, Periplaneta americana, Stress.

9360-69
OBSERVATIONS ON POLYMORPHISM IN TWO SPECIES OF HELICONIINE BUTTERFLIES FROM TRINIDAD, WEST INDIES.
L M Cook L P Browner
Entomologist (london) 102(1273):125-128
Jun 1969 421 EN8
Color, Insect morphology, Nymphalidae, Polymorphism, Wings (insects).

9361-69
TREES FOR BEES.
V A Cook
New Zeal J Agr 118(6):45, 47
Jun 1969 23 N48J
Apiculture, Apis mellifera, Crataegus, Currants, Insect nutrition, Surveys, Trees.

9362-69
CHANGES IN SUSCEPTIBILITY OF SCREW-WORM FLIES TO THE CHEMOSTERILANT N,N'-TETRAMETHYLENEBIS(1-AZIRIDINECARBOXAMIDE), WITH TIME OF ADMINISTRATION.
M M Crystal
J Econ Entomol 62(1):275-276
17 Feb 1969 421 J822
Biological control (insects), Chemical control (insects), Chemosterilants, Cochliomyia hominivorax, Insecticide resistant insects, Susceptibility, Tetramethylene bis(1-aziridinecarboxamide), N,N'-, Time.

9363-69
POPULATION DYNAMICS OF THE WEEVIL SITONA REGENSTEINENSIS (HBST.) ON BROOM.
W Danthanarayana
J Anim Ecol 38(1):1-18 REF
Feb 1969 410 J826
Curculionidae, Cytisus, Insect biology, Insect nutrition, Insect physiology, Mortality, Population, Sitona.

9364-69
CHANGES IN TEMPERATURE TOLERANCE DURING THE LIFE CYCLE OF CALLIPHORA ERYTHROCEPHALA.
T F Davison
J Insect Physiol 15(6):977-988 REF
Jun 1969 421 J825
Calliphora vicina, Insect acclimatization, Insect biology, Insect physiology, Temperature.

9365-69
STUDY OF SOCIAL RELATIONSHIPS IN ANTS OF THE GENUS APHAENOGASTER. (FR)
B Delage P Jaisson
Acad Sci Compt Rend Ser D Sci Nat 268(4, 1ST SEMESTER):701-703
27 Jan 1969 505 P21
Aphaenogaster, Formicidae, Gastrointestinal system, Insect behavior, Insect morphology, Social insects.

9366-69
RESEARCH ON MESSOR OF THE BASIN oF AQUITAINE: ECOLOGY AND BIOLOGY. (FR)
B Delage
Bull Biol France Belg 102(3):315-367 MAP REF
1968 473 B87
Formicidae, Insect biology, Insect ecology, Messor, Zoogeography. English summary.

9367-69
THE PROLIFERATION OF AQUATIC PLANTS IN LAKE TRASIMENO AND ITS CONSEQUENCES ON THE DIFFUSION OF PHYTOCHIRONOMUS SEVERINI GOETGH. (IT)
M V Di Giovanni
Accad Naz Ital Entomol Atti 8:262-268 REF
1960 420 AC2
Aquatic plants, Chemical control (insects), Chironomidae, Chlorinated hydrocarbons, Herbicides, Insect ecology, Insect outbreaks, Insect pests, Larvae, Myriophyllum spicatum, Nymphs, Phytochironomus severini, Population, Potamogeton perfoliatus, Toxicity, Zoogeography. English summary.

9368-69
CONTROL OF PLANT BUG COMPLEX.
R L Dinkins J R Brazzel C A Wilson
Miss Farm Res 33(5):8
May 1969 100 M69MI
Anthonomus grandis, Beneficial insects, Biological control (insects), Chemical control (insects), Dimethoate, Disulfoton, Fenthion, Fleahoppers, Insecticides, Isopropoxyphenyl methylcarbamate, o-, Miridae, Organophosphorus compounds, Trichlorfon.

9369-69
THE ENEMIES OF THE PREDACEOUS MITES AS A REDUCING FACTOR OF SPIDER MITES. (GE)
G Dosse
Entomophaga 7(3):227-236 REF
1962 421 EN835
Anthocoris nemorum, Apples, Biocenosis, Biological control (insects), Chrysopa vulgaris, Mites, Orius minutus, Panonychus ulmi, Predaceous insects, Tetranychidae, Typhlodromus pyri. English summary. report from First Colloquium on Integrated Control in Orchards, Sept. 5-9, 1961, Wageningen, Netherlands.

9370-69
NEW OR LITTLE KNOWN FEEDING HABITS IN EMPIDIDAE (DIPTERA).
J A Downes S M Smith
Can Entomol 101(4):404-408 REF
Apr 1969 421 C16
Empididae, Food habits, Insect biology, Pollen, Predaceous insects.

9371-69
THE RECOGNITION OF NULLIPAROUS AND PAROUS CULICOIDES (DIPTERA: CERATOPOGONIDAE) WITHOUT DISSECTION.
A L Dyce
Entomol Soc Australia (nsw) J 8(1):11-15
30 Jun 1969 423.92 EN84
Color, Culicoides, Insect identification, Insect physiology, Insect rearing, Reproduction.

9372-69
POST-ECDYSAL SETAL DEVELOPMENT IN THE ALEYRODIDAE (HEMIPTERA).
V F Eastop
Roy Entomol Soc London Proc Ser A Gen Entomol 44(1-3):48
22 Apr 1969 420 L84PA
Aleyrodidae, Insect physiology, Molting (insects).

9373-69
THE NEURAL CONTROL OF CERCAL GROOMING BEHAVIOUR IN THE COCKROACH, PERIPLANETA AMERICANA.
R C Eaton R D Farley
J Insect Physiol 15(6):1047-1065 REF
Jun 1969 421 J825
Insect behavior, Insect physiology, Nervous system, Periplaneta americana.

9374-69
ON THE ACTION OF BRACON VENOM.
J S Edwards T J Sernka
Toxicon 6(4):303-305
May 1969 391.8 T66
Braeon, Galleria mellonella, Insect respiration, Metamorphosis, Paralysis, Toxicology, Venoms.

9375-69
THE DISTRIBUTION OF BENTHIC INVERTEBRATES ON SUBSTRATA IN FAST-FLOWING STREAMS.
H J Egglishaw
J Anim Ecol 38(1):19-33 REF
Feb 1969 410 J826
Aquatic insects, Habitats, Insect ecology, Insect nutrition, Marine biology, Streams.

9376-69
VITAMIN REQUIREMENTS IN A SIEVE TUBE SUCKING APHID, NEOMYZUS CIRCUMFLEXUS BUCKT. (HOMOPTERA, INSECTA). (GE)
P Ehrardt
Z Vergleichende Physiol 60(4):416-426 REF
30 Sep 1968 444.8 Z3
Aphididae, Avitaminosis, Insect nutrition, Insect physiology, Insect rearing, Neomyzus circumflexus, Vitamins. English summary.

9377-69
TAXONOMIC COMPOSITION, TROPHIC STRUCTURE AND SEASONAL OCCURRENCE IN A GRASSLAND INSECT COMMUNITY.
F C Evans W W Murdoch
J Anim Ecol 37(1):259-273 REF
Feb 1968 410 J826
Grassland communities, Insect ecology, Insect nutrition, Insect taxonomy, Surveys.

9378-69
METHODS TO INVESTIGATE THE POPULATION DYNAMICS OF APHIDS AND APHID PARASITES IN ORCHARDS.
H H Evenhuis
Entomophaga 7(3):215-220
1962 421 EN835
Aphelinus mali, Aphididae, Aphis pomi, Dysaphis plantaginea, Eriosoma lanigerum, Insect populations, Methodology, Orchards, Parasitism, Rhopalosiphum insertum. German summary. report from First Coloquium on Integrated Control in Orchards, Sept. 5-9, 1961, Wageningen, Netherlands.

9379-69
SEASONAL DISTRIBUTION OF SOME ARTHROPOD PARASITES OF RABBITS IN LOUISIANA.
J E Farlow E C Burns J D Newsom
J Med Entomol 6(2):172-174
May 1969 421 J828
Amblyomma americanum, Cediopsylla simplex, Cuterebra, Dermacentor variabilis, Haemaphysalis leporispalustris, Rabbits.

9380-69
MORPHOLOGY OF HEMOCYTES OF RHYNCHOSCIARA ANGELAE NONATO AND PAVAN, 1951 (DIPTERA, MYCETOPHILIDAE). (POR)
M D G Ferri M Tokumaru T U Worsmann
Rev Brasil Biol 28(3):225-234 REF
Sep 1968 442.8 R326
Blood cells, Insect morphology, Insect physiology, Mycetophilidae, Rhynchosciara. English summary.

9381-69
THE INFLUENCE OF LIGHT AND TEMPERATURE ON THE PUPAL EMERGENCE ACTIVITY OF CHIRONOMUS NUDITARSIS STR. (GE)
J Fischer S Rosin
Rev Suisse Zool 75(3):538-549 REF
Sep 1968 410 R324
Aquatic insects, Chironomus nuditarsis, Diurnal rhythm, Emergence, Insect ecology, Insect physiology, Light, Pupae, Temperature, Water. English and French summaries.

9382-69
A NOTABLE INTERGENERIC MATING (LYCAENIDAE).
D Frechin
Lepidopterists Soc J 23(2):115
29 May 1969 421 L554
Lycaenidae, Sex behavior.

9383-69
STUDIES ON THE ECOLOGY OF ADULT TIPULIDAE (DIPTERA) IN SOUTHERN ENGLAND.
B E Freeman
J Anim Ecol 37(2):339-362 REF
Jun 1968 410 J826
Drying, Imagos, Insect ecology, Population, Tipulidae.

9384-69
MIGRATION OF LAPHYGMA EXIGUA HUBNER (LEPIDOPTERA: NOCTUIDAE) TO THE BRITISH ISLES IN RELATION TO LARGE-SCALE WEATHER SYSTEMS.
R A French
J Anim Ecol 38(1):199-210 MAP REF
Feb 1969 410 J826
Insect migration, Spodoptera exigua, Weather, Zoogeography.

9385-69
PARASITIC CHANGING IN HOSTS AND ITS ECOLOGICAL IMPORTANCE FOR THE PARASITE. (GE)
E Fuhrer
Entomophaga 13(3):241-250
1968 421 EN835
Insect ecology, Insect physiology, Parasitism, Predaceous insects. English abstract.

9386-69
INSECT PARASITES OF THE INSECT GALLS IN EUROPE. (GE)
L Fulmek
Beitr Entomol 18(7-8):719-952 REF
1968 421 B392
Coleoptera, Diptera, Gall-making insects, Hymenoptera, Insect taxonomy, Lepidoptera, Parasitic insects, Surveys, Thysanoptera, Zoogeography. English and Russian abstracts.

9387-69
PARASITIZATION OF WORKER BUMBLE BEES OF MISSISSIPPI BY PHYSOCEPHALA LARVAE.
R Fulton W H Norman
Miss Acad Sci J 13:125
1967 500 M697
Abdomen, Bombus, Larvae, Ovulation, Parasitic insects, Physocephala.

9388-69
RESEARCH ON THE ECOLOGICAL SYSTEM OF THE FOREST. SERIES B: THE MIXED, CALCICOLOUS OAKS OF VIRELLES-BLAIMONT. CONTRIBUTION NO. 18. COLEOPTERA CAUGHT IN 1965 AND 1966. (FR)
C Gaspar
Bull Recherch Agron Gembloux (N s)3(1)76-82
1968 S5.B8
Carabidae, Coleoptera, Forests, Insect ecology, Insect taxonomy, Insect traps, Quercus.

9389-69
TESTS ON THE CONTROL OF PRAYS CITRI MILL. BY MEANS OF BACILLUS THURINGIENSIS. (PRELIMINARY REPORT). (IT)
G Giammanco M Militello G Mineo
Palermo Univ Ist Entomol Agr Boll 6,1965/1966:17-27
15 Mar 1967 423.92 P17
Bacillus thuringiensis, Bacteria, Biological control (insects), Citrus, Insect diseases, Insect pests, Larvae, Mortality, Prays citri, Yponomeutidae. English and French summaries.

9390-69
THE COCCID SACCHARICOCCUS SACCHARI (COCKERELL) (HEMIPTERA PSEUDOCOCCIDAE) OF SUGAR CANE IN MOZAMBIQUE. (POR)
M L Goncalves
Agron Mocambicana 2(1,JAN-MAR):57-64 REF
1968 S15.A3
Economic entomology, Hemiptera, Insect morphology, Insect pests, Larvae, Nymphs, Pseudococcidae, Saccharicoccus sacchari, Sugarcane. English and French summaries.

9391-69
SOME UNUSUAL CELL INCLUSIONS IN THE MID-GUT OF A MOTH BUG, GYARINA NIGRITARSIS KARSCH (HOMOPTERA: FLATIDAE), AND THEIR POSSIBLE SIGNIFICANCE IN NUTRITION.
A J P Goodchild
Roy Entomol Soc London Proc Ser A Gen Entomol 44(1-3):11-16
22 Apr 1969 420 L84PA
Flatidae, Homoptera, Insect histology, Intestines.

9392-69
NOTES ON PARASITES OF IMMATURE TABANIDAE (DIPTERA) AND DESCRIPTIONS OF THE LARVA AND PUPARIUM OF CARINOSILLUS PRAVUS (DIPTERA: TACHINIDAE).
J T Goodwin
Tenn Acad Sci J 43(4):107-109
Oct 1968 500 T25A
Carinosillus pravus, Insect behavior, Insect morphology, Larvae, Parasitic insects, Pupae, Tabanidae, Tachinidae.

9393-69
ULTRASTRUCTURE OF THE TROPHIC BANDS IN THE OVARIES OF SEVERAL HOMOPTERAN AUCHENORRHYNCHA. (FR)
C Hamon R Folliot
Acad Sci Compt Rend Ser D Sci Nat 268(3, 1ST SEMESTER):577-580
20 Jan 1969 505 P21
Auchenorrhyncha, Cicadellidae, Cicadidae, Insect cytology, Insect morphology, Ovaries, Ribosomes, Ulopidae.

9394-69
PROPAGATION OF A CERAMBYCID BORER ON A MERIDIC DIET.
K L S Harley B W Willson
Can J Zool 46(6):1265-1266
Nov 1968 470 C16D
Biological control (insects), Cerambycidae, Insect physiology, Insect rearing, Lantana camara, Larvae, Meridic diets, Plagiohammus spinipennis.

9395-69
THE APPRAISAL OF DELAYED AND DIRECT DENSITY-INDEPENDENCE.
M P Hassell C B Huffaker
Can Entomol 101(4):353-361
Apr 1969 421 C16
Insect ecology, Models, Population, Statistical analysis.

9396-69
NOCTURNAL COPULATION OF RHOPALOCERA.
J R Heitzman
Lepidopterists Soc J 23(2):105-106
29 May 1969 421 L554
Butterflies, Insect behavior, Sex behavior, Time.

9397-69
POSTEMBRYONIC DEVELOPMENT OF THE MALE AND FEMALE REPRODUCTIVE SYSTEMS OF FRANKLINIELLA FUSCA (HINDS) (THRIPIDAE) AND HAPLOTHRIPS VERBASCI (OSBORN) (PHILAEOTHRIPIDAE) (THYSANOPTERA).
B S Heming
Diss Abstr Sect B 29(3):1052B
Sep 1968 Z5055.U49D53
Frankliniella fusca, Haplothrips verbasci, Insect anatomy, Insect morphology, Philaeothripidae, Reproductive organs, Sex behavior, Spermatophores, Thripidae.

9398-69
LEGAL ASPECTS OF CROP SPRAYING.
J Henderson
Ill Univ Ext Circ (990):8P
Nov 1969 275.29 IL62C
Crops, D, 2,4-, Insecticide residues, Licenses, Phenoxy acid compounds, Poisons, Spraying.

9399-69
THE COMPARATIVE MORPHOLOGY OF THE DORSAL VESSEL AND ACCESSORY STRUCTURES OF THE LEPIOPTERA AND ITS PHYLOGENETIC IMPLICATIONS.
J H Hessel
Entomol Soc Amer Ann 62(2):353-370 REF
Mar 1969 420 EN82
Dorsal vessel, Insect evolution, Insect morphology, Insect taxonomy, Lepidoptera.

9400-69
AN ELECTRON MICROSCOPE STUDY OF THE DIFFRACTION GRATINGS OF SOME CARABID BEETLES.
H E Hinton D F Gibbs
J Insect Physiol 15(6):959-962
Jun 1969 421 J825
Carabidae, Electron microscopy, Insect morphology, Light.

9401-69
EFFECT OF MITOMYCIN-C ON THE DEVELOPMENT OF THE EYE-DISKS IN DROSOPHILA MELANOGASTER.
Y Hirose S Kaji
Experientia 25(2):199-200
15 Feb 1969 475 EX7
Autoradiography, Drosophila melanogaster, Eyes, Insect biochemistry, Insect physiology, Mitomycin-C, Morphology.

9402-69
THE ACTION OF THE ENDOCRINE SYSTEM AND THE OVARIES ON THE HEMOGRAM OF LOCUSTA MIGRATORIA L. (ORTHOPTERA). THE ROLE OF THE CORPORA CARDIACA. (FR)
J A Hoffmann M Cazal
Acad Sci Compt Rend Ser D Sci Nat 268(16, 1ST SEMESTER):2113-2115
21 Apr 1969 505 P21
Corpora cardiaca, Endocrine glands, Hemograms, Insect biochemistry, Insect physiology, Locusta migratoria, Ovaries, Secretion.

9403-69
SELECTION FOR GENERATION TIME IN DROSOPHILA MELANOGASTER.
W Hopper W St. Amand
Miss Acad Sci J 13:143
1967 500 M697
Diurnal rhythm, Drosophila melanogaster, Insect mating, Insect physiology, Reproduction, Temperature.

9404-69
THE DIEL PATTERN OF FEEDING ACTIVITY OF LARVAL PSEUDOSARCOPHAGA AFFINIS (DIPTERA: SARCOPHAGIDAE).
H L House
Can Entomol 101(4):409-415 REF
Apr 1969 421 C16
Food habits, Insect behavior, Larvae, Photoperiodism, Pseudosarcophaga affinis.

9405-69
SOME ASPECTS OF ASSESSING EFFICIENCY OF NATURAL ENEMIES.
C B Huffaker C E Kennett
Can Entomol 101(4):425-447 REF
Apr 1969 421 C16
Biological control, Insect ecology, Mites, Models, Parasites, Population, Predators, Reviews.

9406-69
STUDIES ON LONGEVITY OF ADULT ERETMAPODITES CHRYSOGASTER, AEDES TOGOI AND AEDES (STEGOMYIA) ALBOPICTUS FEMALES DIPTERA: CULICIDAE).
A R Hylton
J Med Entomol 6(2):147-149
May 1969 421 J828
Aedes, Culicidae, Insect biology, Longevity.

9407-69
ENTOMOLOGICAL AND GENERAL BIOLOGICAL INTEREST IN A COMPARATIVE ENDOCRINOLOGY OF SOCIAL INSECTS. (ABSTRACT). (IT)
C Jucci
Accad Naz Ital Entomol Atti 8:23-27
1960 420 AC2
Chromatography, Endocrine glands, Endocrinology, Entomology, Glands (insects), Hormones, Insect biology, Social insects.

9408-69
ACOUSTIC SIGNALLING AND ITS POSSIBLE RELATIONSHIP TO ASSEMBLING AND NAVIGATION IN THE MOTH, HELIOTHIS ZEA.
R E Kay
J Insect Physiol 15(6):989-1001 REF
Jun 1969 421 J825
Heliothis zea, Insect behavior, Sense organs, Stridulation, Ultrasonic waves.

9409-69
INVESTIGATIONS OF THE WING MECHANISM OF DERMAPTERA. (GE)
W Kleinow
Munich Univ Naturwiss Fak (Inaug-Diss) (96):363-416 REF
1965 509 M923
Dermaptera, Forficula auricularia, Insect anatomy, Insect flight, Insect morphology, Labia minora, Wings (insects). English summary.
Reprint from: Zeitschrift fur Morphologie und Okologie der Tiere 56(4):363-416, 1966.

9410-69
A PHOTOMETRIC TECHNIQUE FOR QUANTITATIVE EVALUATION OF FEEDING PREFERENCES OF PHYTOPHAGOUS INSECTS.
M Kogan R D Goeden
Entomol Soc Amer Ann 62(2):319-322
Mar 1969 420 EN82
Food habits, Methodology, Photometry, Phytophagous insects.

9411-69
THE INTESTINE OF A HIGHER TERMITE (MICROCEROTERMES EDENTATUS, WASMAN, AMITERMITINAE). HISTOPHYSIOLOGY AND SYMBIOTIC BACTERIAL FLORA. (FR)
J Kovoor
Bull Biol France Belg 102(1):45-84 REF
1968 473 B87
Bacteria, Histochemistry, Insect anatomy, Insect histology, Insect physiology, Intestines, Microcerotermes edentatus, Termites. English summary.

9412-69
DESCRIPTION OF NEW SOCIAL PARASITES OF LEPTOTHORAX ACERVORUM F. (FORMICIDAE). (GE)
H Kutter
Schweiz Entomol Ges Mitt 40(1/2):78-91
20 Jul 1967 420 SW6
Formicidae, Insect morphology, Insect mutation, Insect taxonomy, Leptothorax acervorum, Parasitism, Social insects.

9413-69
THE NEUROSECRETORY CELLS OF THE BRAIN OF AEDES AEGYPTI IN RELATION TO LARVAL MOLT, METAMORPHOSIS AND OVARIAN DEVELOPMENT.
J R Larson A Broadbent
Amer Microscop Soc Trans 87(4):395-410 REF
Oct 1968 440.9 AM33
Aedes aegypti, Brain, Insect morphology, Insect physiology, Larvae, Metamorphosis, Molting (insects), Nerves, Neurosecretion.

9414-69
ON THE WEIGHT DECLINE OF EGGS IN ONE OVIPOSITION BATCH OF BOMBYX MORI. (FR)
J-m Legay L Baud
Acad Sci Compt Rend Ser D Sci Nat 268(6, 1ST SEMESTER):970-973
10 Feb 1969 505 P21
Bombyx mori, Insect eggs, Oviposition, Weight.

9415-69
REPRODUCTIVE ISOLATION AND SIZE VARIATION IN THE MUSCIDIFURAX RAPTOR COMPLEX.
E F Legner
Entomol Soc Amer Ann 62(2):382-385 REF
Mar 1969 420 EN82
Insect evolution, Insect physiology, Muscidifurax raptor, Pteromalidae, Sex behavior, Zoogeography.

9416-69
THE EFFECT OF VARYING THE INITIAL NUMBERS ON THE OUTCOME OF COMPETITION BETWEEN TWO TRIBOLIUM SPECIES.
P H Leslie T Park D B Mertz
J Anim Ecol 37(1):9-23 REF
Feb 1968 410 J826
Competition, Insect ecology, Insect populations, Tribolium.

9417-69
BIOLOGICAL OBSERVATIONS ON ZEUZERA PYRINA L. IN SICILY. (LEP. COSSIDAE). (IT)
G Liotta I Giuffrida
Palermo Univ Ist Entomol Agr Boll 6,1965/1966:29-60 REF
15 Mar 1967 423.92 P17
Biological control (insects), Ceratonia siliqua, Chemical control (insects), Cossidae, Hymenoptera, Insect biology, Insect pests, Insecticides, Kaki persimmons, Larvae, Organophosphorus compounds, Parasitic insects, Parathion, Zeuzera pyrina, Zoogeography. English, French and German summaries.

9418-69
A CONTROL UNIT FOR THE AUTOMATIC OPERATION OF A PORTABLE 115 VOLT 60 CYCLE A.C. POWER PLANT FOR INSECT LIGHT TRAPS.
R B Lowe
Can Entomol 101(4):422-424
Apr 1969 421 C16
Insect collecting equipment, Light traps.

9419-69
HISTOLOGICAL DATA ON THE CUTICULAR ACIDIC MUCOPOLYSACCHARIDES IN ORTHOPTERA. (FR)
R Martoja A-m Cantacuzene
Acad Sci Compt Rend Ser D Sci Nat 268(4, 1ST SEMESTER):697-700
27 Jan 1969 505 P21
Cuticle, Insect histology, Insect morphology, Orthoptera, Polysaccharides.

9420-69
NOTE ON A PARASITIC ASPERGILLUS ON LARVAE OF AMSACTA MOOREI BUTLER.
Y K Mathur B L Mathur
China Plant Protect Bull 16(4):66
Aug 1968 464.9 C47

Amsacta moorei, Aspergillus fumigatus, Entomogenous fungi, Insect diseases, Larvae.

9421-69
PRELIMINARY STUDIES ON THE EFFECTS OF GAMMA IRRADIATION OF EGGS AND ADULTS OF THE SOUTHERN GREEN STINK BUG, NEZARA VIRIDULA (L.).
R Mau W C Mitchell M Anwar
Hawaii Entomol Soc Proc 19(3):415-417
Jun 1967 420 H312
Gamma rays, Imagos, Insect eggs, Insect physiology, Nezara viridula, Radiation.

9422-69
AN OBSERVATION ON THE ILEUM OF THE EUROPEAN CORN BORER, OSTRINIA NUBILALIS.
D G R McLeod W G Graham C L Hannay
J Insect Physiol 15(6):927-929
Jun 1969 421 J825
Electron microscopy, Gastrointestinal system, Insect morphology, Insect physiology, Lysosomes, Ostrinia nubilalis.

Preliminary work with the electron microscope on the ileum of the corn borer has shown that the paraldehyde-fuchsin-positive granules associated with fluorescence are lysosomes.

9423-69
ESTERASE INHIBITION IN MALATHION POISONING IN THE DESERT LOCUST, SCHISTOCERCA GREGARIA FORSKAL.
K N Mehrotra A Phokela P Saxena
Indian J Exp Biol 7(2):110-113 REF
Apr 1969 442.8 IN2
Esterases, Insect biochemistry, Insecticides, Malathion, Organophosphorus compounds, Schistocerca gregaria, Toxicology.

9424-69
METABOLISM OF 2,2-DIMETHYL-2,3-DIHYDROBENZOFURANYL-7 NMETHYLCARBAMATE (FURADAN) IN PLANTS, INSECTS, AND MAMMALS.
R L Metcalf T R Fukuto C Collins K Borck S A El-Aziz R Munoz 6
J Agr Food Chem 16(2,MAR-APR):300-311 REF
1968 381 J8223
Animal physiology, Aphis gossypii, Bucculatrix thurberiella, Carbamates, Carhofuran, Estigmene acrea, Insect physiology, Insecticides, Metabolism, Mice, Phenols, Plant physiology, Tetranychus cinnaharinus.

9425-69
NEW PREDACEOUS INSECTS OF PRAY CITRI MILL. (CITRUS FLOWER MOTH) FOUND IN SICILY. (IT)
G Mineo
Palermo Univ Ist Entomol Agr Boll 6,1965/1966:1-6
15 Mar 1967 423.92 P17
Balance of nature, Citrus, Hymenoptera, Parasitic insects, Prays citri, Yponomeutidae, Zoogeography. English and French summaries.

9426-69
ON CRYPTOLAEMUS MONTROUZIERI MULS. (MORPHO-BIOLOGICAL OBSERVATIONS). (IT)
G Mineo
Palermo Univ Ist Entomol Agr Boll 6,1965/1966:99-143 REF
15 Mar 1967 423.92 P17
Aphididae, Coccinellidae, Cryptolaemus montrouzieri, Insect biology, Insect breeding, Insect morphology, Potatoes, Pseudococcus adonidum, Pseudococcus citri, Winter squash, Zoogeography. English and French summaries.

9427-69
FUNCTIONAL CHARACTERISTICS OF THE ALIMENTARY CANAL OF THE COCKROACH, BLABERUS CRANIIFER BURMEISTER.
W W D Modder
Ceylon J Sci Biol Sci 7(1/2):1-8 REF
Oct 1967 475 C33
Bacteria, Blaberus craniifer, Blattidae, Carbohydrates, Digestion, Gastrointestinal system, Hydrogen-ion concentration, Microorganisms, Nymphs.

9428-69
THE MODE OF FEEDING IN THE SILVERFISH ACROTELSA COLLARIS (F.) (THYSANURA: LEPISMATIDAE).
W W D Modder
Entomologist (london) 102(1273):129-132
Jun 1969 421 EN8
Acrotelsa collaris, Food habits, Insect behavior, Insect morphology, Lepismatidae, Mouth parts.

9429-69
ARTIFICIAL BIOLOGICAL CONTROL OF THE OLIVE FRUIT FLY (DACUS OLEAE GMEL.) BY MEANS OF OPIUS CONCOLOR SZ. SICULUS MON. ON THE LIPARI ISLANDS (SICILY). JULY-SEPTEMBER 1965. (IT)
S Monastero P Delanoue
Palermo Univ Ist Entomol Agr Boll 6, 1965/1966:61-97 MAP
15 Mar 1967 423.92 P17
Biological control (insects), Ceratitis capitata, Climate, Dacus oleae, Insect dissemination, Insect eggs, Opius concolor, Parasitism, Predaceous insects, Pupae, Tables (data), Zoogeography.

9430-69
ARTIFICIAL BIOLOGICAL CONTROL OF DACUS OLEAE GMEL. BY MEANS OF OPIUS CONCOLOR SZEP. SICULUS MON. (FR)
S Monastero
Palermo Univ Ist Entomol Agr Boll 6,1965/1966:7-16
15 Mar 1967 423.92 P17
Biological control (insects), Dacus oleae, Insect eggs, Opius concolor, Predaceous insects, Zoogeography.

9431-69
A LARGE EXPERIMENT ON ARTIFICIAL BIOLOGICAL CONTROL OF THE OLIVE FRUIT FLY (DACUS OLEAE G.) BY MEANS OF OPIUS C. SZ. SICULUS MON. IN SICILY. (PALERMO JULY-OCTOBER 1966). (IT)
S Monastero P Delanoue
Palermo Univ Ist Entomol Agr Boll 6,1965/1966:145-194 MAP
15 Mar 1967 423.92 P17
Biological control (insects), Dacus oleae, Insect pests, Larvae, Olives, Opius concolor, Parasitic insects, Parasitism, Zoogeography. English and French summaries.

9432-69
THE LABORATORY BREEDING AND EMBRYONIC DEVELOPMENT OF CHORTHIPPUS BRUNNEUS THUNBERG (ORTHOPTERA: ACRIDIDAE).
F Moriarty
Roy Entomol Soc London Proc Ser A Gen Entomol 44(1-3):25-34
22 Apr 1969 420 L84PA
Acrididae, Humidity, Insect biology, Insect eggs, Insect nutrition, Insect rearing, Temperature.

9433-69
LOGARITHMIC REGRESSION AS AN INDEX OF RESPONSES TO POPULATION DENSITY.
R F Morris T Royama
Can Entomol 101(4):361-364
Apr 1969 421 C16
Forest insects, Insect ecology, Mathematical analysis, Models, Parasitism, Population.

9434-69
A QUANTITATIVE STUDY OF FOOD CONSUMPTION AND GROWTH OF PODISUS.MACULIVENTRIS.(HEMIPTERA: PENTATOMIDAE).
M K Mukerji E J LeRoux
Can Entomol 101(4):387-403 REF
Apr 1969 421 C16
Food consumption, Insect biology, Insect physiology, Podisus maculiventris, Quantitative analysis.

9435-69
ECOLOGICAL OBSERVATIONS ON THE SPECIES SMICROMYRME SEPTENTRIONALIS HFFR. (HYM. MUTILLIDAE). (FR)
C G Nagy
Acta Ent Bohemoslov 65(5):375-378
20 Sep 1968 420 C33
Insect behavior, Insect ecology, Insect taxonomy, Mutillidae, Smicromyrme septentrionalis, Zoogeography. English and Czech summaries

9436-69
COMPARISON OF SYSTEMIC INSECTICIDES BY DIP TREATMENTS FOR CONTROL OF THE COTTONWOOD LEAF BEETLE.
W W Neel
J Econ Entomol 62(1):265-267
17 Feb 1969 421 J822
Chemical control (insects), Chrysomela scripta, Dipping, Insect pests, Insecticides, Populus deltoides, Saperda calcarata. 8 insecticides were tested.

9437-69
BIOTIC FACTORS INFLUENCING POPULATIONS OF DACUS DORSALIS IN HAWAII.
I M Newell F H Haramoto
Hawaii Entomol Soc Proc 20(1):81-139
Jun 1968 420 H312
Biological control (insects), Dacus dorsalis, Insect biology, Insect ecology, Insect rearing, Mortality, Population.

9438-69
PSALLUS AMBIGUUS (FALL.) (HETEROPTERA, MIRIDAE). PART II, NUTRITION AND ROLE IN THE BIOCENOSIS OF ORCHARDS. (POL)
E Niemczyk
Pol Pismo Entomol 38(2):387-416 REF
1968 421 P76
Apples, Biocenosis, Braconidae, Insect physiology, Insect rearing, Larvae, Miridae, Orchards, Predaceous insects, Psallus ambiguus, Temperature. English summary.

9439-69
STIMULATION OF TWO INTERACTING SPECIES OF TRIBOLIUM.
B S Niven
Physiol Zool 42(2):248-255
Apr 1969 410 P56
Insect behavior, Insect rearing, Tribolium castaneum, Tribolium confusum.

9440-69
BIONOMICS OF THE JUNIPER WEBWORM.
G L Nordin J E Appleby
Entomol Soc Amer Ann 62(2):287-292
Mar 1969 420 EN82
Apanteles, Dichomeris marginella, Insect biology, Insect ecology, Itoplectis conquisitor, Juniperus, Natural control (insects).

9441-69
THE DETERMINATION OF LARVAL INSTARS OF THE RICE WEEVIL SITOPHILUS ORYZAE (L.) (COLEOPTERA: CURCULIONIDAE) IN WHEAT.
A E O'Donnell
Ark Acad Sci Proc 21:36-38
1967 500 AR42
Curculionidae, Insect biology, Insect physiology, Larvae, Measurement, Sitophilus oryzae, Wheat.

9442-69
THE BIOLOGY AND MORPHOLOGY OF ERIOPHYES EMARGINATAE, A PRUNUS FINGER GALL MITE, AND NOTES ON E. PRUNIDEMISSAE.
G N Oldfield
Entomol Soc Amer Ann 62(2):269-277
Mar 1969 420 EN82
Eriophyidae, Insect biology, Insect morphology, Population, Prunus virginiana.

9443-69
MECHANISMS OF ORIENTATION IN THE LEAF-CUTTER BEE MEGACHILE ROTUNDATA (FABRICIUS).
C E Osgood
Diss Abstr Sect B 29(3):1054B
Sep 1968 Z5055.U49D53
Alfalfa, Attractants, Color, Insect behavior, Insect migration, Megachile rotundata, Pollination, Research.

9444-69
EXPERIMENTAL STUDIES ON THE REGRESSION OF THE VENTRAL GLANDS OF THE EARWIG, ANISOLABIS MARITIMA, DURING METAMORPHOSIS.
K Ozeki
Tokyo Univ Coll Gen Educ Sci Pap 18(2):199-219
Dec 1968 330.9 T572
Anisolabis, Glands (insects), Insect physiology, Metamorphosis.

9445-69
THE IMPORTANCE OF THE TRANSPLANTATION OF FORMICA LUGUBRIS IN ITALY. (IT)
M Pavan
Accad Naz Ital Entomol Atti 8:102-111 MAP
1960 420 AC2
Biological control (insects), Forests, Formica rufa, Formicidae, Insect dissemination, Insect pests, Myrmecocystus lugubris, Population, Zoogeography. French summary.

9446-69
A POPULATION STUDY OF CIS BILAMELLATUS WOOD (COLEOPTERA, CIDAE).
K Pavior-Smith
J Anim Ecol 37(1):205-228 REF
Feb 1968 410 J826
Cisidae, Habitats, Insect biology, Polyporus betulinus, Population.

9447-69
ALKYL AND ARYL 4-(METHYLCARBAMOYLOXY) CARBANILATES. PATENT 3,450,745.
L K Payne M H J Weiden
Us Patent Office Offic Gaz 863(3):891
17 Jun 1969 156.65 OF2
Carbanilates, Insect pests, Lepidoptera, Patents, Systemic insecticides.

9448-69
ARTHROPOD PREDATORS OF IMMATURE DIPTERA DEVELOPING IN POULTRY DROPPINGS IN NORTHERN CALIFORNIA. PART II. LABORATORY STUDIES ON FEEDING BEHAVIOR AND PREDATION POTENTIAL OF SELECTED SPECIES.
J H Peck
J Med Entomol 6(2):168-171 REF
May 1969 421 J828
Fannia, Histeridae, Insect behavior, Insect feeding, Musca domestica, Predaceous insects, Staphylinidae.

9449-69
DIAPAUSE AND REPRODUCTION IN NEBRIA BREVICOLLIS (F.) (COLEOPTERA: CARABIDAE).
M M Penney
J Anim Ecol 38(1):219-233 REF
Feb 1969 410 J826
Carabidae, Insect physiology, Population, Reproduction.

9450-69
A STUDY OF THE CASHEW BORER,MECOCORYNUS LORIPES CHES. (COLEOPTERA, CURCULIONIDAE) I. THE ANATOMY OF THE PRINCIPAL ORGANS. (POR)
M F V Pinheiro
Agron Mocambicana 2(1,JAN-MAR):47-55
1968 S15.A3
Curculionidae, Insect anatomy, Larvae, Mecocorynus loripes. English and French summaries. to be continued.

9451-69
A LIGHTWEIGHT COLLAPSIBLE BAIT TRAP FOR LEPIDOPTERA.
A P Platt
Lepidopterists Soc J 23(2):97-101
29 May 1969 421 L554
Insect collecting equipment, Insect traps, Lepidoptera, Methodology.

9452-69
METABOLISM OF INSECTICIDES. MICROSYNTHESIS OF 14C-BETADIHYDROHEPTACHCOR.
N H Poonawalla F Korte
J Agr Food Chem 16(1,JAN-FEB):13-14 REF
1968 381 J8223
Biochemistry, Carbon isotopes, Dihydroheptachlor, beta-, Insecticides, Insects, Mammals, Metaholism, Synthesis.

9453-69
THE EFFECT OF CULTURAL MEASURES ON THE POPULATION DENSITY OF HARMFUL AND BENEFICIAL ORGANISMS IN ORCHARDS.
A Post
Entomophaga 7(3):257-262
1962 421 EN835
Aphis pomi, Brevipalpus oudemansi, Bryobia rubrioculus, Cultural control (insects), Eotetranychus pomi, Eriosoma lanigerum, Insect populations, Orchards, Panonychus ulmi, Phytophagous mites. German summary. report from First Colloquium on Integrated Control in Orchards, Sept. 5-9, 1961, Wageningen, Netherlands.

9454-69
FOOD PREFERENCE AS A FACTOR IN DISTRIBUTION AND ABUNDANCE OF PHOETALIOTES NEBRASCENSIS.
K P Pruess
Entomol Soc Amer Ann 62(2):323-327
Mar 1969 420 EN82
Acrididae, Food habits, Insect ecology, Population, Zoogeography.

9455-69
PRELIMINARY OBSERVATIONS ON THE BIOLOGY OF AMBLYSEIUS TARDI LOMB. (ACARINA-PHYTOSEIIDAE) A PREDATOR OF TETRANYCHUS URTICAE KOCH. (IT)
S Ragusa
Palermo Univ Ist Entomol Agr Boll 6,1965/1966:199-206 REF
15 Mar 1967 423.92 P17
Amblyseius tardi, Castorbeans, Experimental insects, Insect biology, Insect rearing, Mites, Phytoseiidae, Predaceous insects, Tetranychus urticae, Zoogeography. English and French summaries.

9456-69
FACTOR ANALYSIS AS A MULTIVARIATE STATISTICAL METHOD IN THE STUDY OF THE GROWTH PATTERN OF THE ANTENNAE OF GERRIS FLUVIORUM F. (HEM. GERRIDAE).
B Raja Rao M L Garg
Growth 31(4):331-343 REF
Dec 1967 442.8 G91
Antennae, Factor analysis, Gerridae, Growth factors, Insect biology, Insect physiology, Statistical analysis.

9457-69
THE BROWN RECLUSE SPIDER AND LOXOSCELISM IN TENNESSEE.
H B Reed
Tenn Acad Sci J 43(4):110-114 MAP REF
Oct 1968 500 T25A
Human diseases, Insect geography, Insect morphology, Loxosceles reclusa, Surveys, Venoms.

9458-69
BINOMICS OF ENOCLERUS BARRI (COLEOPTERA: CLERIDAE).
R E Rice
Can Entomol 101(4):382-386 REF
Apr 1969 421 C16
Cleridae, Insect biology, Insect rearing, Zoogeography.

9459-69
THE FUNDAMENTAL SCHEMA OF OOGENESIS IN THE FIREBRAT LEPISMODES INQUILINUS (THYSANURA, LEPISMATIDAE) AND ITS PERIODISATION IN CONNECTION WITH IMAGINAL MOULTING CYCLES.
E B Rohdendorf
Acta Ent Bohemoslov 65(5):341-348 REF
20 Sep 1968 420 C33
Insect biology, Insect physiology, Larvae, Lepismatidae, Lepismodes, Molting (insects), Oogenesis. Czech summary

9460-69
THE MYOBLASTIC MASSES AND NEURAL TISSUE ASSOCIATED WITH THE PROVENTRICULUS OF LARVAE OF AEDES TRISERIATUS, A. AEGYPTI, AND ANOPHELES QUADRIMACULATUS.
W S Romoser C E Venard
Entomol Soc Amer Ann 62(2):345-348
Mar 1969 420 EN82
Aedes aegypti, Aedes triseriatus, Anopheles quadrimaculatus, Head, Insect histology, Insect morphology, Larvae, Muscles, Nervous system.

9461-69
ON THE TRANSPLANTATION OF ANTS OF THE GROUP FORMICA RUFA IN ITALY. (IT)
G Ronchetti
Accad Naz Ital Entomol Atti 8:218-227
1960 420 AC2
Biological control (insects), Formica rufa, Formicidae, Insect dissemination, Myrmecocystus lugubris, Population, Predaceous insects, Zoogeography. French summary.

9462-69
AN EPIZOOTIC OF SERRATIA MARCESCENS (ENTEROBACTERIACEAE) IN PERIPLANETA FULIGINOSA (BLATTARIA) AND A SUGGESTED METHOD FOR CONTROL.
M E Rueger T A Olson
J Med Entomol 6(2):191
May 1969 421 J828
Drug therapy, Insect diseases, Periplaneta fuliginosa, Serratia marcescens, Zephiran chloride.

9463-69
RECENTLY INTRODUCED BEETLES IN THE PACIFIC NORTHWEST.
L Russell
Coleopt Bull 22(2):62-63
Jun 1968 421 C674
Coleoptera, Insect outbreaks, Zoogeography. Lists: Bembidion lampros, Rugilus rufipes, Sepedophilus testaceum, Coccinella undecimpunctata undecimpunctata, Aphodius haemorrhoidalis, and Apion longirostre.

9464-69
IRIDIUM-192 AS A TAG FOR CARPENTER ANTS OF THE GENUS CAMPONOTUS (HYMENOPTERA: FORMICIDAE).
C J Sanders W F Baldwin
Can Entomol 101(4):416-422 REF
Apr 1969 421 C16
Camponotus, Formicidae, Insect nests, Maps, Radioactive tracers.

9465-69
HORMONAL CONTROL OF TURNOVER OF TYROSINE AND TYROSINE AND TYROSINE PHOSPHATE DURING TANNING OF THE ADULT CUTICLE IN THE FLY, SARCOPHAGA BULLATA.
M Seligman S Friedman G Fraenkel
J Insect Physiol 15(6):1085-1101 REF
Jun 1969 421 J825
Cuticle, Hormones, Insect biochemistry, Insect physiology, Radioactive tracers, Sarcophaga bullata, Tannins, Tyrosine.

9466-69
A COMPARISON OF THE EFFECT OF DIAZINON, CHLORFENVINPHOS AND OF BAYER 37289 AGAINST THE CABBAGE FLY. (FR)
E Seutin A J Plasman P H Martens
Bull Recherch Agron Gembloux (N s)3(1):190-195
1968 S5.B8
Chemical control (insects), Chlorfenvinphos, Chortophila brassicae, Diazinon, Ethyl O-2,4,5-trichlorophenyl ethylphosphonothioate, O-, Insecticides, Pesticide residues.

9467-69
TOXICITY AND EFFECTS ON MOTOR COORDINATION OF SOME NEUROTROPIC DRUGS ON THE COCKROACH NAUPHOETA CINEREA.
G F Shambaugh
Entomol Soc Amer Ann 62(2):370-375 REF
Mar 1969 420 EN82
Drugs, Insect behavior, Insect physiology, Nauphoeta cinerea, Toxicity, Toxicology.

9468-69
THE ASSAY OF GONADOTROPIC EFFECT OF JUVENILE HORMONE ON AEDES AEGYPTI OVARIES.
B R Shivers W H Norman
Miss Acad Sci J 13:142
1967 500 M697
Aedes aegypti, Assay, Diet, Gonadotropins, Hormones, Insect physiology, Ovaries.

9469-69
MATERIALS FOR IDENTIFICATION OF PARASITES OF SOME NOXIOUS FOREST INSECTS. (POL)
Z Sierpinski
Pol Pismo Entomol 38(2):429-439
1968 421 P76
Braconidae, Chalcidoidea, Cynipoidea, Forests, Ichneumonidae, Insect identification, Insect pests, Nomenclature, Parasitic insects, Tachinidae. English summary. The author presents a list of parasites belonging to each species.

9470-69
REMARKS ON THE MORPHOLOGY OF SOME RARE PALEARCTIC OPILONIDS (OPILIONIDEA). (GE)
V Silhavy
Acta Ent Bohemoslov 65(5):397-398
20 Sep 1968 420 C33
Insect morphology, Palearctic Region, Phalangida. English and Czech summaries.

9471-69
A METHOD FOR MASS COLLECTION OF WASP VENOMS.
R P Simon A W Benton
Entomol Soc Amer Ann 62(2):277-278
Mar 1969 420 EN82
Hymenoptera, Methodology, Venoms.

9472-69
THE EFFECT OF TWO HOST SPECIES ON THE LONGEVITY AND FERTILITY OF NASONIA VITRIPENNIS.
G J C Smith D Pimentel
Entomol Soc Amer Ann 62(2):305-308 REF
Mar 1969 420 EN82
Fertility, Longevity, Musca domestica, Nasonia vitripennis, Parasitic insects, Phaenicia sericata, Population, Pteromalidae.

9473-69
THE PATTERN OF PTERIDINE ACCUMULATION IN EGGS OF PYRRHOCORIS APTERUS.
R L Smith H S Forrest
J Insect Physiol 15(6):953-957
Jun 1969 421 J825
Insect biochemistry, Insect eggs, Insect physiology, Pteridine, Pyrrhocoris apterus.

The pteridines occurring in the eggs of the bug Pyrrhocoris apterus are erythropterin, isoxanthopterin, violapterin, chrysopterin, and a new compound which appears to be a 6-substituted derivative of violapterin. The changing content of all of these compounds with development has been determined. There are no simple precursor-product relationships among them.

9474-69
FEEDING RESPONSES TO SOUND WOOD BY THE EASTERN SUBTERRANEAN TERMITE, RETICULITERMES FLAVIPES.
R V Smythe F L Carter
Entomol Soc Amer Ann 62(2):335-337
Mar 1969 420 EN82
Food habits, Insect behavior, Reticulitermes flavipes, Termites, Wood.

9475-69
CYCLIC OVARIOLE CHANGES IN ANOPHELES FARAUTI LAVERAN (DIPTERA: CULICIDAE) IN PAPUA-NEW GUINEA.
M Spencer S H Christian
Entomol Soc Australia (nsw) J 8(1):16-20
30 Jun 1969 423.92 EN84
Anopheles, Insect behavior, Insect physiology, Ovaries, Reproduction.

The ovariole picture seen on dissection of exit window-trapped, fed Anopheles farauti females differed in three areas of Papua-New Guinea. The differences are described and explained. The contraction of the pedicels after oviposition is independent of development of the oocytes after feeding; the condition of pedicels and oocytes on dissection can give clues to the behaviour patterns and house-resting habits of this species in different areas of its distribution.

9476-69
ASPECTS OF THE RELATIONSHIP BETWEEN BURYING BEETLES, NECROPHORUS SSP. AND THE MITE, POECILOCHIRUS NECROPHORI VITZ.
B P Springett
J Anim Ecol 37(2):417-424 REF
Jun 1968 410 J826
Acarina, Insect ecology, Predaceous insects, Silphidae, Surveys.

9477-69
THE IMPORTANCE OF THE INDIFFERENT ARTHROPODS IN FRUIT ORCHARDS. (GE)
H Steiner
Entomophaga 7(3):263-267
1962 421 EN835
Apples, Arthropoda, Fruit culture, Insect populations. English summary discussion of arthropods which are neither beneficial nor noxious.

9478-69
NOTES ON THE BIOLOGY AND HOSTPLANT ASSOCIATIONS OF ORNITHOPTERA PRIAMUS URVILLEANUS AND O. VICTORIAE (PAPILIONIDAE).
R Straatman
Lepidopterists Soc J 23(2):69-76 MAP
29 May 1969 421 L554
Food habits, Insect behavior, Insect biology, Oviposition, Papilionidae, Plants.

9479-69
STUDY OF A BITING MIDGE, FORCIPOMYIA (LASIOHELEA) TAIWANA (SHIRAKI) (DIPTERA: CERATOPOGONIDAE)I. DESCRIPTION OF THE COMPLETE LIFE CYCLE OF THE MIDGE REARED IN THE LABORATORY.
W K C Sun
Tunghai Univ Coll Sci Dept Biol Biol Bull 29:10P REF
Apr 1967 442.9 T83
Ceratopogonidae, Experimental insects, Forcipomyia taiwana, Humidity, Insect anatomy, Insect biology, Insect collecting equipment, Insect eggs, Larvae, Serum, Temperature. Chinese summary.

9480-69
SOME FACTORS INFLUENCING THE REPRODUCTION AND LONGEVITY OF COCCINELLA SEPTEMPUNCTATA LINNAEUS (COLEOPTERA: COCCINELLIDAE).
R A Sundby
Entomophaga 13(3):197-202
1968 421 EN835
Coccinella septempunctata, Insect biology, Insect nutrition, Longevity, Reproduction.

9481-69
FEEDING RESPONSE OF LEPOMIS CYANELLUS TO BLISTER BEETLES (MELOIDAE).
R J Tafanelli J C Bass
Southwest Natur 13(1):51-54
28 May 1968 409.6 SO8
Fish, Food preferences, Lepomis, Meloidae, Tettigoniidae.

9482-69
COMPARATIVE RESPONSE OF TWO STRAINS OF CALIFORNIA RED SCALE, AONIDIELLA AURANTII, MALES TO PHEROMONE EXTRACT AND TO FEMALES OF THE RECIPROCAL STRAIN.
H Tashiro J B Beavers D Moreno
Entomol Soc Amer Ann 62(2):279-280
Mar 1969 420 EN82
Aonidiella aurantii, Insect behavior, Pheromones, Sex behavior.

9483-69
DIAPAUSE IN CHRYSOPA CARNEA (NEUROPTERA: CHRYSOPIDAE. I. EFFECT OF PHOTOPERIOD ON REPRODUCTIVITY ACTIVE ADULTS.
M J Tauber C A Tauber
Can Entomol 101(4):364-370
Apr 1969 421 C16
Chrysopa carnea, Insect physiology, Photoperiodism, Reproduction.

9484-69
BIOCHEMICAL AND PHYSIOLOGICAL STUDIES OF CERTAIN TICKS (IXODOIDEA). EXPERIMENTAL FEEDING OF ARGAS (PERSICARGAS) ARBOREUS KAISER, HOOGSTRAAL AND KOHLS (AREASIDAE) THROUGH MEMBRANES.
M S Tawfik S S Guirgis
J Med Entomol 6(2):191-195 REF
May 1969 421 J828
Argasidae, Insect nutrition, Insect rearing, Ixodoidea, Molting (insects).

9485-69
WING COLORATION OF DENDROTHRIPS ORNATUS (JABLONOWSKI). (GE
E Titschack
Hamburg Ver Naturwiss Heimatforsch Verhanol 37:17-28 REF
15 Mar 1967 509 H17V
Bibliography, Color, Dendrothrips ornatus, Insect identification, Insect names, Insect nutrition, Insect taxonomy, Thysanoptera, Wings (insects), Zoogeography.

9486-69
LABORATORY REARING OF PEPPER WEEVILS ON ARTIFICIAL DIETS.
H H Toba A N Kishaba R Pangaldan S Riggs
J Econ Entomol 62(1):257-258
17 Feb 1969 421 J822
Anthonomus eugenii, Anthonomus grandis, Diet, Insect nutrition, Insect pests, Insect physiology, Insect rearing, Redpeppers (vegetable).

9487-69
INFLUENCE BY MITOMYCIN ON THE BRISTLE DIFFERENTIATION AND PATTERN STRUCTURE IN DROSPHILA MELANOGASTER. (GE)
H Tobler
Experientia 25(2):213-214
15 Feb 1969 475 EX7
Drosophila melanogaster, Insect morphology, Mitomycin-C, Morphology. English abstract

9488-69
CAUSES OF THE VARIED BEHAVIOR OF THE BLACK BARK BEETLE OF OLIVES (HYLESINUS OLEIPERDA FABR.) IN DALMATIA. (SE)
A Tominic
Zastita Bilja 18(93/95):75-83
1967 464.8 Z1
Chemical control (insects), Climate, Hylesinus oleiperda, Insect behavior, Insect ecology, Insect nutrition, Insect pests, Insecticides, Olives, Parasitism. French summary.

9489-69
ESTIMATED FOOD CONSUMPTION BY THE COLORADO BEETLE (LEPTINOTARSA DECEMLINEATA SAY) UNDER CONDITIONS OF NATURAL REDUCTION.
P Trojan
Ekol Pol Ser A (SER A)16(18):385-394
1968 512 W263
Food consumption, Insect ecology, Insect pests, Leptinotarsa decemlineata, Potatoes. Polish summary.

9490-69
AN IMPROVED CAGE FOR THE MASS REARING OF THE TRICHOGRAMMA EGG PARASITES (HYMENOPTERA, CHALCIDOIDEA). (GE)
H Ulrich
Entomophaga 13(3):233-236
1968 421 EN835
Insect rearing, Laboratory equipment, Methodology, Trichogramma. English abstract.

9491-69
SOME CONSEQUENCES OF IRRADIATING THE GYPSY MOTH EGGS WITH RADIOACTIVE COBALT 60. (SE)
L Vasiljevic M Injac
Zastita Bilja 18(93/95):55-65 REF
1967 464.8 Z1
Cobalt isotopes, Dosage, Insect diseases, Insect eggs, Irradiation, Polyhedroses, Porthetria dispar, Radioactivity, Viruses. English summary.

9492-69
THE COCKROACH INTEGUMENT: PAS-POSITIVE GRANULES AND THEIR POSSIBLE RELATIONSHIP WITH PHENOL STORAGE.
J M Viles R R Mills
J Insect Physiol 15(6):1079-1083 REF
Jun 1969 421 J825
Cuticle, Insect biochemistry, Insect histology, Periplaneta americana, Phenols.

9493-69
BIOLOGY AND MORPHOLOGY OF GRAPHOSOMA SEMIPUNCTATA FABRICIUS, (HETEROPTERA, PENTATOMIDAE). (FR)
J Vofgele
Awamia (20):43-101 REF
Jul 1968 24 AW1
Graphosoma semipunctata, Heteroptera, Insect biology, Insect eggs, Insect morphology, Insect rearing, Parasitism, Pentatomidae, Zoogeography. English, Spanish and Arabic summaries. description of 9 new forms and of 30 parasites is included.

9494-69
THE INFLUENCE OF NUTRITION ON THE FERTILITY AND LONGEVITY OF THE BEAN WEEVIL (ACANTHOSCELIDES OBTECTUS SAY). (SE)
P Voukassovitch S Glumac
Zastita Bilja 18(93/95):11-20
1967 464.8 Z1
Acanthoscelides obtectus, Beans, Fertility, Glucose, Honey, Insect eggs, Insect nutrition, Insect physiology, Longevity, Water. French summary.

9495-69
POPULATION STUDIES ON TWO SPECIES OF PSYLLIDAE (HOMOPTERA, STERNORHYNCHA) ON BROOM (SAROTHAMNUS SCOPARIUS (L.) WIMMER).
R H Watmough
J Anim Ecol 37(2):283-314 REF
Jun 1968 410 J826
Cytisus, Mortality, Population, Predaceous insects, Psyllidae, Surveys.

9496-69
LIFE HISTORY AND HABITS OF THE SHORT-TAILED CRICKET, ANUROGRYLLUS MUTICUS IN CENTRAL LOUISIANA.
J E Weaver R A Sommers
Entomol Soc Amer Ann 62(2):337-342
Mar 1969 420 EN82
Gryllidae, Insect behavior, Insect biology, Insect morphology.

9497-69
THE USE OF MUSHROOM ENZYMES FOR SOFTENING INSECT CUTICLE.
M Weinstock F J D McDonald
Entomol Soc Australia (nsw) J 8(1):115-116
30 Jun 1969 423.92 EN84
Cuticle, Enzymes, Insect physiology, Mushrooms.

9498-69
BIOLOGY OF CHEILONEVRUS NOXIUS, WITH EMPHASIS ON HOST RELATIONSHIPS AND OVIPOSITION BEHAVIOR.
R M Weseloh
Entomol Soc Amer Ann 62(2):299-305 REF
Mar 1969 420 EN82
Coccoidea, Encyrtidae, Food habits, Insect behavior, Insect biology, Parasitic insects, Sex behavior.

9499-69
LIFE HISTORY AND PREDATORY IMPORTANCE OF THE STRIPED LYNX SPIDER (ARANEIDA: OXYOPIDAE).
W H Whitcomb R Eason
Ark Acad Sci Proc 21:54-58
1967 500 AR42
Beneficial insects, Insect biology, Oxyopes salticus, Oxyopidae, Predaceous insects.

9500-69
POLYMORPHISM OF PHILAENUS SPUMARIUS (L.) (HOMOPTERA, CERCOPIDAE) IN ENGLAND.
J B Whittaker
J Anim Ecol 37(1):99-111 REF
Feb 1968 410 J826
Cercopidae, Color, Philaenus spumarius, Polymorphism, Population.

9501-69
THE BIOLOGY OF PIPUNCULIDAE (DIPTERA) PARASITISING SOME BRITISH CERCOPIDAE (HOMOPTERA).
J B Whittaker
Roy Entomol Soc London Proc Ser A Gen Entomol 44(1-3):17-24 REF
22 Apr 1969 420 L84PA
Cercopidae, Insect biology, Parasitic insects, Pipunculidae, Zoogeography.

9502-69
THE ENDOCRINE CONTROL OF PROTEIN METABOLISM AS RELATED TO REPRODUCTION IN THE FLESHFLY SARCOPHAGA BULLATA.
J L Wilkens
J Insect Physiol 15(6):1015-1024 REF
Jun 1969 421 J825
Insect metabolism, Proteins, Reproduction, Sarcophaga bullata.

9503-69
THE NYMPHAL LIABIAL GLAND OF DAMSELFLIES (ZYGOPTERA: ODONATA).
R L Willey
Amer Microscop Soc Trans 88(3):370-379 REF
Jul 1969 440.9 AM33
Insect histology, Insect morphology, Odonata, Salivary glands (insects).

9504-69
THE SPIRACULAR MORPHOLOGY OF THE HAWAIIAN DAMSELFLY MEGALAGRION BLACKBURNI (ODONATA).
R L Willey
Hawaii Entomol Soc Proc 20(1):213-237 REF
Jun 1968 420 H312
Electron microscopy, Insect morphology, Odonata, Spiracles.

9505-69
CELLULOLYTIC ENZYME SYSTEM OF TRICHODERMA KONINGII; SEPARATION OF COMPONENTS ATTACKING NATIVE COTTON.
T M Wood
Biochem J 109(2):217-227 REF
Sep 1968 382 B52
Assay, Biochemistry, Cellulose, Cotton, Culture media, Enzymes, Fibers, Insect pests, Trichoderma koningii. Proceeding from 483rd meeting Biochemical Society held on June 20-22 at Univ. Coll. of North Wales, Bangor.

9506-69
ABUNDANCE AND HABITAT OF FIVE SPECIES OF COCKROACHES ON A PERMANENT MILITARY BASE.
C G Wright H C McDaniel
J Econ Entomol 62(1):277-278
17 Feb 1969 421 J822
Blatta orientalis, Blattella germanica, Habitats, Insect behavior, Periplaneta americana, Periplaneta fuliginosa, Supella supellectilium, Surveys, Zoogeography.

9507-69
PHOTOPERIODIE INDUCTION OF DIAPAUSE IN LARVAE OF THE WINTER TICK, DERMACENTOR ALBIPICTUS.
J Wright
Entomol Soc Amer Ann 62(2):285-287 REF
Mar 1969 420 EN82
Dermacentor albipictus, Insect physiology, Insect rearing, Larvae, Photoperiodism.

9508-69
STUDIES ON NICOTINOIDS AS AN INSECTICIDE. PART VII. CHOLINESTERASE INHIBITION BY NICOTINOIDS AND PYRIDYLALKYLAMINES--ITS SIGNIFICANCE TO MODE OF ACTION.
I Yamamoto Y Soeda H Kamimura R Yamamoto
Agr Biol Chem 32(11):1341-1348
Nov 1968 385 AG8B
Chemical control (insects), Cholinesterases, Enzymes, Insect physiology, Insecticides, Ionization, Ions, Musca domestica, Pyridine compounds, Toxicity, Toxins.

9509-69
THE SOLAR-DAY ACTIVITY RHYTHM OF MYRMELEONTID LARVAE.
G J Youthed V C Moran
J Insect Physiol 15(6):1103-1116 REF
Jun 1969 421 J825
Diurnal rhythm, Insect behavior, Larvae, Myrmeleontidae.

GENETICS

9510-69
CORRELATIONS BETWEEN EGG PRODUCTION AND CHROMOSOMAL- REGIONS IN DROSOPHILA MELANOGASTER.
W Chapco
Can J Genet Cytol 10(4):951-960 REF
Dec 1968 443.8 C16
Chromosomes, Drosophila melanogaster, Insect eggs, Insect genetics, Insect rearing.

9511-69
THE EFFECT OF TEMPERATURE ON THE NUMBER OF EGGS DEPOSITED AND ON THE PRODUCTION OF HATCHING LARVAE IN VERSENE-TREATED DROSOPHILA MELANOGASTER. (RUS)
N B Christoliubova Z S Nikoro
Genetika 4(9):40-46 REF
1968 QH431.A1G4

Cells, Chromosomes, Drosophila melanogaster, Ethylenediaminetetraacetic acid, Insect eggs, Insect genetics, Insect physiology, Larvae, Salivary glands (insects), Temperature, Variance analysis. English summary.

9512-69
DROSOPHILA MELANOGASTER TREATED WITH LSD: ABSENCE OF MUTATION AND CHROMOSOME BREAKAGE.
D Grace E A Carlson P Goodman
Science 161(3842):694-696 REF
16 Aug 1968 470 SCI2
Chromosomes, Drosophila melanogaster, Insect genetics, Insect mutation, Insect rearing, LSD, Mutagens, Sex determination.

9513-69
A DROSOPHILA STOCK USEFUL FOR SIMULTANEOUS SCORING OF SEX-LINKED AND AUTOSOMAL RECESSIVE LETHALS.
P C Kesavan
Indian J Genet Plant Breeding 27(2):302-304
Jul 1967 64.8 IN2
Chromosomes, Drosophila, Insect genetics.

9514-69
CYTOGENETICS OF TICKS (ACARI: IXIDOIDEA). 5. COMPARATIVE SURVIVAL OF THREE SPECIES OF DERMACENTOR (IXODIDAE) FOLLOWING ETHERIZATION.
J H Oliver A Z Al-Ahmadi
J Med Entomol 6(2):216-218
May 1969 421 J828
Cytogenetics, Dermacentor, Ethyl ether, Ixodidae, Mortality.

9515-69
THE ROLE OF THE AMPHINUCLEOLUS IN MEIOSIS AND POLE PLASM DEVELOPMENT OF AEDES AEGYPTI.
R Scales W H Norman
Miss Acad Sci J 13:142-143
1967 500 M697
Aedes aegypti, Chromosomes, Cytoplasm, Deoxyribonucleic acid, Insect genetics, Insect morphology, Meiosis, Nucleic acids, Ovaries.

9516-69
A CHROMOSOME STUDY ON BISEXUAL AND PARTHENOGENETIC RACES OF SCEPTICUS INSULARIS ROELOFS (CURCULIONIDAE: COLEOPTERA).
Y Takenouchi
Can J Genet Cytol 10(4):945-950 MAP REF
Dec 1968 443.8 C16
Chromosomes, Curculionidae, Insect genetics, Insect rearing, Parthenogenesis, Scepticus insularis.

9517-69
A CHIASMATE SEX QUADRIVALENT IN THE MALE OF AN ALTICID BEETLE, CYRSYLUS VOLKAMERIAE (F.).
N Virkki
Can J Genet Cytol 10(4):898-907 REF
Dec 1968 443.8 C16
Alticinae, Chromosomes, Chrysomelidae, Cyrsylus volkameriae, Insect genetics, Insect rearing, Sex determination, Volkameria aeuleata, Zoogeography.

MEDICAL ENTOMOLOGY

9518-69
ON THE INEFFICIENCY OF TRANSMISSION OF WUCHERERIA BANCROFTI FROM MOSQUITO TO HUMAN HOST.
N G Hairston B De Meillon
World Health Organ Bull 38(6):935-941 REF
1968 449.9 W892B
Culex pipiens quinquefasciatus, Epidemiology, Human diseases, Insect vectors, Microfilarial infestations, Nematodes, Parasitism, Wuchereria bancrofti. French summary.

9519-69
PARASITOLOGICAL AND CLINICAL INVESTIGATIONS ON INFECTIONS WITH THE VS ROMANIAN STRAIN OF PLASMODIUM MALARIAE TRANSMITTED BY ANOPHELES LABRANCHIAE ATROPARVUS.
G Lupascu P Constantinescu E Negulici P G Shute M E Maryon
World Health Organ Bull 38(1):61-67 REF
1968 449.9 W892B
Anopheles labranchiae atroparvus, Culicidae, Human diseases, Insect vectors, Malaria, Plasmodium, Plasmodium malariae. French summary.

9520-69
ARTIFICIAL FEEDING OF SIMULIUM VECTORS OF HUMAN AND BOVINE ONCHOCERCIASIS.
J P McMahon
World Health Organ Bull 38(6):957-966
1968 449.9 W892B
Cattle, Experimental insects, Feeding, Human diseases, Humidity, Insect vectors, Light, Livestock diseases, Onchocerca volvulus, Onchocerciasis, Simulium, Temperature. French summary.

9521-69
EFFECTS OF ULTRA-LOW VOLUME APPLICATIONS OF MALATHION IN HALE COUNTY, TEXAS. I. WESTERN ENCEPHALITIS VIRUS ACTIVITY IN TREATED AND UNTREATED TOWNS.
C J Mitchell R O Hayes P Holden H R Hill T B Hughes
J Med Entomol 6(2):155-162 REF
May 1969 421 J828
Culex tarsalis, Insect vectors, Insecticides, Malathion, Organophosphorus compounds, Western equine encephalomyelitis.

9522-69
STUDIES ON THE YELLOW FEVER IN ETHIOPIA. 4. ENTOMOLOGICAL RESEARCH AT THE MANERA STATION. (FR)
P Neri C Serie L Andral A Poirier
World Health Organ Bull 38(6):863-872 MAP
1968 449.9 W892B
Culicidae, Epidemiology, Human diseases, Insect vectors, Tables (data), Yellow fever. English summary.

The following mosquitoes were found: Aedes simpsoni, A. africanus, A. aegypti, A. luteocephaluus, A. furcifer, and Eretmapodites.

9523-69
PROGRESS REPORT OF LOW-VOLUME AERIAL SPRAY TESTS AGAINST ADULTS OF AEDES TAENIORHYNCHUS (WEID.) AND CULEX NIGRIPALPUS THEOB.
C B Rathburn A H Boike A J Rogers
Fla Anti-mosquito Ass Rep 39:26-32
1968 420 F663
Aedes taeniorhynchus, Chemical control (insects), Imagos, Insect pests, Insecticide application, Insecticides, Magnesium oxide, Naled, Organophosphorus compounds, Spraying.

9524-69
STUDIES ON YELLOW FEVER IN ETHIOPIA. 5. ISOLATION OF VIRUS STRAINS FROM ARTHROPOD VECTORS. (FR)
C Serie L Andral J Casals M C Williams P Bres P Neri
World Health Organ Bull 38(6):873-877
1968 449.9 W892B
Aedes africanus, Aedes dentatus, Culex, Eretmapodites, Human diseases, Insect vectors, Yellow fever, Yellow fever virus. English summary.

CROP PROTECTION

9525-69
IDENTITY OF SPOROPOLLENIN WITH OLDER KEROGEN AND NEW EVIDENCE FOR THE POSSIBLE BIOLOGICAL SOURCE OF CHEMICALS IN SEDIMENTARY ROCKS.
J Brooks G Shaw
Nature 220(5168):678-679 REF
16 Nov 1968 472 N21
Biochemistry, Geological surveying, Kerogens, Morphology, Organic compounds, Plants, Sedimentary rocks, Sporopollenins.

9526-69
ANNUAL REPORT, FISCAL YEAR 1967-1968.
Dep Forestry Rural Develop Rep 1967-1968, 64P
1968 HD1781.C3
Forest insects, Surveys, Tree diseases. French text, 71 p., on reverse. includes forest entomology, pathology, and pest surveys.

9527-69
TURFGRASS RESEARCH BY THE CALIFORNIA AGRICULTURE EXTENSION SERVICE.
W B Davis
Pest Contr Oper News 27(10-11,OCT-NOV):36
1967 SB951.A1P4
Grasses, Irrigation, Plant adaptation, Plant disease control, Research, Soil management, Turf, Weed control. The artiele is to be continued next month

9528-69
WEATHER, DEVELOPMENT OF VINES, DISEASES, PESTS AND DAMAGES IN THE WINE-GROWING AREAS OF THE FEDERAL REPUBLIC OF GERMANY IN 1967. (GE)
W Gartel M Hering
Weinberg Keller 15(5):229-262
May 1968 95.8 W435
Crop losses, Grape vineyards, Plant diseases, Plant injuries, Plant morphology, Plant pests, Tables (data), Virus diseases (plants), Weather. Disussion of many pests and diseases.

9529-69
PLANT PROTECTION UNDER STRICT CONTROLS. (GE)
E Gersdorf
Prakt Schadlingsbekampfer 20(4):67-68
May 1967 421 P882
Food analysis, Legislation, Pest control, Pesticides, Plant protection, Public health, Toxicity, Vegetables.

9530-69
THE ECONOMIC AND HORTICULTURAL ASPECTS OF GROWING MACADAMIA NUTS COMMERCIALLY IN HAWAII.
J T Keeler E T Fukunaga
Hawaii Agr Exp Sta Agr Econ Bull (27):47P
Jun 1968 280.9 H312
Agricultural production economics, Chemical control (weeds), Chlorinated hydrocarbons, Cultural control (weeds), Herbicides, Nuts, Phenoxy acid compounds.

The following herbicides are discussed: aromatic oil, pentachlorophenol, paraquat, 2,4,5-T, 2,4-D, dalapon, diuron, atrazine, and simazine.

9531-69
OCCURRENCE AND DISTRIBUTION OF DISEASES AND PESTS OF RICE AND THEIR CONTROL IN THAILAND.
T H King
China Plant Protect Bull 16(3):41-45
Jun 1968 464.9 C47
Bacterial diseases (plants), Fungus diseases (plants), Insect control, Pest control, Plant nematodes, Rice, Surveys, Virus diseases (plants), Weeds.

9532-69
TOLERANCES AND EXEMPTIONS FROM TOLERANCES FOR PESTICIDE CHEMICALS IN OR ON RAW AGRICULTURAL COMMODITIES. O,O-DIETHYL O-(2-ISOPROPYL-4-METHYL-6-PYRIMIDINYL) PHOSPHOROTHIOATE.
J K Kirk
Fed Regist 34(40):3623-3624
28 Feb 1969 L1.451

Agricultural products, Chemicals, Diazinon, Organophosphorus compounds, Pesticide residues, Pesticides, Raw materials, Regulation (pesticides), Tolerances.

9533-69
ABOUT ASSUMPTIONS OF THE COMPLEX-CENTER BIOLOGICAL METHOD OF FOREST PROTECTION. (POL)
W Koehler
Sylwan 112(7):43-51
1968 99.8 SY52
Biological control (insects), Environment, Forest conservation, Forest management, Methodology.

9534-69
MISSISSIPPI HYBRID CORN PERFORMANCE TESTS, 1968.
L R Nelson G E Scott
Miss Agr Exp Sta Bull (769):11P MAP
Jan 1969 100 M69 (1)
Corn, Crop yields, Fertilizers, Harvesting, Tables (data).

9535-69
FABABEANS, A NEW CROP FOR MINNESOTA.
R G Robinson
Minn Agr Exp Sta Misc Rep (83):8P
Dec 1968 100 M66 (2)
Broadbeans, Crop varieties, Food plants, Insect control, Insect pests, Weed control.

9536-69
ACCLIMATION OF PROSPALTELLA PERNICIOSI TOW. IN YUGOSLAVIA. (SE)
M Tadic
Zastita Bilja 18(93/95):147-154 MAP
1967 464.8 Z1
Aspidiotus perniciosus, Insect rearing, Plant protection, Prospaltella perniciosi, Pumpkins. English summary.

9537-69
HORTICULTURAL HANDBOOK.
J C Templer et. al.
Kenya Hort Handb 1:190P REF
1966 SB187.K4K4
Chemical control (insects), Dairy equipment, Dusting, Handbooks, Horticulture, Insect pests, Insecticides, Plant diseases, Plant injuries, Plant nematodes, Spraying, Weeds.

DISEASES

9538-69
ADVANCES IN MORPHOGENESIS. (MORPHOGENESIS OF CROWN GALL, BY S. KUPILA-AHVENNIEMI).
M Abercrombie J Brachet T J King S Kupila-Ahvenniemi
Advances Morphogenesis 7:342P REF
1968 450 AD9
Agrobacterium tumefaciens, Bacterial diseases (plants), Crown galls, Plant histology.

9539-69
INFLUENCE OF BOTRYTIS CINEREA INFECTION ON RIBOSOMAL PROPERTIES AND FUNCTIONS IN CABBAGE TISSUES.
V A Aksenova B A Ruhin R V Savchenko A I Brynza
Acad Sci U Ssr Dokl Bot Sci 178(JAN-FEB):9-12 REF
1968 511 P444AE
Botrytis cinerea, Cabbage, Ceratocystis fimbriata, Fungus diseases (plants), Parasitism, Plant physiology, Ribosomes, Tissues. Translated from Russian.

9540-69
STABLE INTERMEDIATE AGGREGATES FORMED BY THE POLYMERIZATION OF BARLEY STRIPE MOSAIC VIRUS PROTEIN.
J C Atabekov V K Novikov N A Kiselev A S Kaftanova A M Egorov
Virology 36(4):620-638 REF
Dec 1968 448.8 V81
Barley, Calcium chloride, Nucleic acids, Polymerization, Proteins, Stripe mosaic, Virology, Virus diseases (plants).

9541-69
SEROLOGICAL STUDY ON BARLEY STRIPE MOSAIC VIRUS PROTEIN POLYMERIZATION. II. COMPARATIVE ANTIGENIC ANALYSIS OF INTACT VIRUS AND SOME STABLE PROTEIN INTERMEDIATES.
J G Atabekov S P Dementyeva N D Schaskolskaya
Virology 36(4):601-612 REF
Dec 1968 448.8 V81
Antibodies, Antigens, Barley, Diffusion, Polymerization, Proteins, Serological tests, Stripe mosaic, Virology, Virus diseases (plants).

9542-69
SEROLOGICAL STUDY ON BARLEY STRIPE MOSAIC VIRUS PROTEIN POLYMERIZATION. I. IMMUNODIFFUSION, IMMUNOELECTROPHORETIC CHARACTERISTICS, AND ABSORPTION EXPERIMENTS.
J G Atabekov N D Schaskolskaya S P Dementyeva G N Sacharovskaya E P Senchenkov
Virology 36(4):587-600 REF
Dec 1968 448.8 V81
Absorption, Barley, Diffusion, Electrophoresis, Immunology, Polymerization, Proteins, Serological tests, Stripe mosaic, Virology, Virus diseases (plants).

9543-69
A MODIFIED SOIL PERCOLATOR ZOOSPORE PRODUCTION AND INFECTION IN STUDIES ON ZOOSPORIC ROOT PATHOGENS.
R G Atkinson
Can J Plant Sci 47(3)332-334
May 1967 450 C16
Equipment, Phytophthora, Plant reproduction, Roots, Soil-borne plant diseases, Zoospores.

9544-69
STUDY ON THE PATHOGENICITY OF PYTHIUM VEXANS DE BARY, PHYTOPHTHORA SPP. AND PHYTOPHTHORA CACTORUM.
S Azeem
Pakistan J Sci Indus Res 11(4):446-448
Oct 1968 475 P174
Dianthus caryophyllus, Fungus diseases (plants), Phytophthora, Phytophthora cactorum, Pythium vexans.

9545-69
BOLL-ROT POTENTIAL, ORGANISMS INVOLVED, AND ACTUAL BOLL ROT IN SEVEN COTTON VARIETIES.
H S Bagga C D Ranney
Phytopathology 59(2):255-256
Feb 1969 464.8 P56
Alternaria tenuis, Aspergillus, Bacterial diseases (plants), Boll rot, Cotton, Crop losses, Crop varieties, Diplodia gossypina, Fungus diseases (plants), Fusarium, Microorganisms, Plant disease resistance, Xanthomonas malvacearum. Many fungus and bacterial diseases are presented in a table.

9546-69
SOIL TREATMENT BY MICROWAVE ENERGY TO DESTROY PLANT PATHOGENS.
K F Baker W H Fuller
Phytopathology 59(2):193-197 REF
Feb 1969 464.8 P56
Energy, Fungus diseases (plants), Fusarium solani phaseoli, Plant disease control, Soil fungi, Soil moisture, Soil sterilization, Spectroscopy.

9547-69
CHROMATOGRAPHIC PURIFICATION OF THE OAT BLUE DWARF VIRUS.
E E Banttari R J Zeyen
Phytopathology 59(2):183-186
Feb 1969 464.8 P56
Blue dwarf, Cellulose, Chromatography, Cicadellidae, Insect vectors, Macrosteles fascifrons, Oats, Plant disease transmission, Polyethylene glycol, Purification procedures, Sodium chloride, Sucrose, Virology, Virus diseases (plants).

9548-69
THE IMPIETRATURA DISEASE OF CITRUS FRUITS.
A Bental B Dagan I Yoffe
China Plant Protect Bull 16(4):64-65 REF
Aug 1968 464.9 C47
Citrus, Impietratura, Plant disease transmission, Virus diseases (plants).

9549-69
FUSCOUS BLIGHT OF BEANS IN SOUTH AFRICA.
B H Boelema
S Afr J Agr Sci 10(4):1059-1061
Dec 1967 24 SU3
Bacterial diseases (plants), Beans, Biochemistry, Blight, Xanthomonas phaseoli.
The morphology and biochemical characteristics of Xanthomonas phaseoli and the symptoms of the blight it causes in beans are presented.

9550-69
IMPORTANCE OF IRREGULAR LOCAL AND SYSTEMIC INFECTIONS FOR THE INTERFERENCE OF TOBACCO MOSAIC VIRUS STRAINS.
J Break
Rev Roumaine Biol Ser Bot 11(1/3):53-56
1966 QK1.R4
Interference phenomenon, Mosaic (tobacco), Nicotiana glutinosa, Tobacco, Virus diseases (plants).

9551-69
SUPPRESSION OF OZONE TOXICITY SYMPTOMS IN VIRUS-INFECTED TOBACCO.
E Brennan I Leone
Phytopathology 59(2):263-264 REF
Feb 1969 464.8 P56
Mosaic, Ozone, Plant injuries, Plant physiology, Resistance, Tobacco, Toxicity, Virus diseases (plants).

9552-69
PHYSODERMA CITRI IN CITRUS ALBEDO AND CALLUS TISSUE.
G E Brown M F Oberbacher
Phytopathology 59(2):241-242
Feb 1969 464.8 P56
Callus (plants), Citrus, Fungus diseases (plants), Grapefruit, Lemons, Physoderma citri, Tissues.

9553-69
ETIOLOGICAL STUDIES ON ROOT ROT OF WHEAT CAUSED BY CERCOSPORELLA HEAPOTRICHOIDES FRON.
R S Byther
Diss Abstr Sect B 29(3):834B-835B
Sep 1968 Z5055.U49D53
Cercosporella herpotrichoides, Fungus diseases (plants), Plant physiology, Plant temperature, Research, Root rot, Soil fungi, Wheat.

9554-69
VIVIPARY IN ZEA MAYS INDUCED BY DIPLODIA MAYDIS.
O H Calvert M S Zuber M G Neuffer
Phytopathology 59(2):239-240 REF
Feb 1969 464.8 P56
Corn, Corn ear, Diplodia zeae, Fungus diseases (plants), Hormones, Plant breeding, Plant physiology, Reproduction, Viviparity.

9555-69
DUTCH ELM DISEASE - THREAT TO COLORADO.
Colo Farm Home Res 19(3,APR-JUN):2-3
1969 100 C712CO
Chemical control (plant diseases), Dieback, Fertilizers, Fungus diseases (plants), Methoxychlor, Plant diseases, Spraying, Ulmus.

9556-69

9556-69
OCCURENCE OF TOMATO RINGSPOT VIRUS IN RED RASPBERRIES IN THE EASTERN UNITED STATES.
R H Converse B Y Endo
Phytopathology 59(2):216-218 REF
Feb 1969 464.8 P56
Cucumbers, Epidemiology, Plant disease transmission, Raspberries, Ring spot, Seedlings, Serological tests, Tomatoes, Virus diseases (plants).

9557-69
1968 CRANBERRY INSECT AND DISEASE CONTROL CHART.
1P
1968 275.29 M3811
Accident prevention, Chemical control (insects), Chemical control (plant diseases), Cranberries, Insecticides.

9558-69
PEPPER PRODUCTION IN KENTUCKY.
H W Davis M E Fogleman
Ky Univ Ext Circ 620:16P
1969 275.29 K415
Chemical control (insects), Chemical control (weeds), Crop yields, Fertilizers, Harvesting, Herbicides, Insecticides, Plant disease control, Plant nutritional deficiencies, Redpeppers (vegetable), Transplanting.

9559-69
PYCNIDIAL PRODUCTION BY DIAPORTHE VEXANS (SACC. AND SYD.) GRATZ AND THE PATHOLOGICAL HISTOLOGY OF INFECTED STEMS AND LEAVES OF EGGPLANT.
G G Divinagracia
Diss Abstr Sect B 29(3):836-837B
Sep 1968 Z5055.U49D53
Diaporthe vexans, Eggplant, Fungus diseases (plants), Leaves, Parasitism, Plant histology, Pycnidia, Stems.

9560-69
STUDIES ON THE TUBERCULATE MYCORRHIZAE OF DOUGLAS FIR (PSEUDOTSUGA TAXIFOLIA BRITTON).
T Dominik I Majchrowicz
Ekol Pol Ser A 15(3):75-90 REF
1967 512 W263
Fungus diseases (plants), Microbiology, Mycorrhizae, Nodules (plants), Pseudotsuga menziesii, Pseudotsuga taxifolia. Polish summary. the paper listed 23 kinds of mycelia.

9561-69
DISEASE STATUS OF VARIOUS TROPICAL AND SUBTROPICAL FRUITS ON THE PARIS MARKET IN SUMMER. (FR)
J Foko P Joudrier S Smolikowski
Fruits 23(10):553-555,563,564,565,566
Nov 1968 80 F9492
Fruit, Fungus diseases (plants), Marketing, Parasitism. English, German, Spanish, and Russian summaries.

9562-69
A FUNGUS OF THE ONION, NEW FOR ITALY: BOTRYTIS SQUAMOSA WALKER. (IT)
A Garibaldi
Agr Ital 68(2,MAR-APR):96-100
1968 16 AG8259
Blast, Botrytis squamosa, Fungicides, Fungus diseases (plants), Humidity, Maneb, Onions, Plant morphology, Symptomatology, Temperature, Zinc plus ethylenebisdithiocarbamate mangancse, Zineb. English summary.

9563-69
EVIDENCE FOR LONGEVITY OF SEEDS.
H Godwin
Nature 220(5168):708-709 REF
16 Nov 1968 472 N21
Albizia julibrissin, Canna, Longevity, Lupine, Nelumbium, Plant hardiness, Plant physiology, Rodents, Seedlings.

9564-69
THE PHYSICAL ACTION OF VIRUSES ON THE PLANT CELL.
M I Goldin
Rev Roumaine Biol Ser Bot 11(1/3):69-73 REF
1966 QK1.R4
Cells, Inclusion bodies, Mitosis, Plant physiology, Virology, Virus diseases (plants), Viruses.

9565-69
THE PROTECTION OF APPLE TISSUE AGAINST INFECTION BY ERWINIA AMYLOVORA AFFORDED BY AVIRULENT STRAINS OF E. AMYLOVORA, A SAPROPHYTIC BACTERIUM AND OTHER BACTERIAL PLANT PATHOGENS.
R N Goodman
Rev Roumaine Biol Ser Bot 11(1/3):75-79
1966 QK1.R4
Apples, Bacterial diseases (plants), Erwinia amylovora, Immunity, Pathogenic bacteria, Plant disease resistance, Tissues, Virulence.

9566-69
POTATO BLACKLEG AND TUBER SOFT ROT.
D C Graham P C Harper
Scot Agr 46(2,SPRING):68-74
1967 10 SCO82SO
Bacterial diseases (plants), Blackleg, Diagnosis, Etiology, Plant disease transmission, Potatoes, Soft rot.

9567-69
THE NATURE AND EFFECT OF ADULT PLANT RESISTANCE TO CROWN RUST IN SEVERAL COMMERCIAL OAT VARIETIES.
A S Heagle
Diss Abstr Sect B 29(3):837B
Sep 1968 Z5055.U49D53
Crop varieties, Crown rust, Fungus diseases (plants), Oats, Plant disease resistance, Plant genetics, Puccinia coronata, Research.

9568-69
AN UNKNOWN GRAPE VINE DISEASE, SPRAY DAMAGE OR RED BURN EPIDEMIC . (GE)
J Henner
Pflanzenarzt 20(8):92-93
01 Aug 1967 464.9 P482
Crop varieties, Epidemiology, Fungus diseases (plants), Grape vineyards, Plant injuries, Pseudopeziza tracheiphila, Spraying.

9569-69
SPECIFIC INHIBITION OF TMV-RNA SYNTHESIS BY BLASTICIDIN S.
A Hirai S C Wildman T Hirai
Virology 36(4):646-651
Dec 1968 448.8 V81
Blasticidin S, Inhibitors, Mosaic, Proteins, Ribonucleic acid, Sucrose, Synthesis, Tobacco, Tobacco mosaic virus, Virology, Virus diseases (plants).

9570-69
FIELD OBSERVATIONS ON ROOT ROT OF TEAK IN TANZANIA.
D Hocking A A Jaffer
China Plant Protect Bull 15(1):10-14
Feb 1967 464.9 C47
Field studies, Fungus diseases (plants), Plant diseases, Root rot, Tectona.

9571-69
SUSCEPTIBILITY OF POTATO VARIETIES TO POWDERY SCAB. (SPONGOSPORA SUBTERRANEA(WALLR.) JOHN). (SE)
F Janezic
Zastita Bilja 18(93/95):21-23
1967 464.8 Z1
Crop varieties, Fungus diseases (plants), Plant disease resistance, Potatoes, Scab, Spongospora subterranea. English summary.

9572-69
CORN VIRUS TESTS IN GEORGIA IN 1968.
M D Jellum C W Kuhn
Ga Agr Exp Sta Res Rep (38):22 MAP
Jan 1969 S51.E22
Corn, Crop yields, Insect vectors, Plant geography, Virus diseases (plants).

9573-69
INTRACELLULAR APPEARANCE OF TURNIP MOSAIC AND BEAN YELLOW MOSAIC PARTICLES.
T Kamei Y Honda C Matsui
Phytopathology 59(2):139-144 REF
Feb 1969 464.8 P56
Broadbeans, Cells, Chinese cabbage, Electron microscopy, Mosaic, Turnips, Virus diseases (plants), Yellow mosaic.

9574-69
RELATIONSHIP OF LIVING AND DEAD CELLS TO SPREAD OF COLLETOTRICHUM GRAMINICOLA IN SORGHUM STALK TISSUE.
R A Katsanos A J Pappelis
Phytopathology 59(2):132-134
Feb 1969 464.8 P56
Cells, Colletotrichum graminicola, Crop varieties, Fungus diseases (plants), Leaves, Plant disease resistance, Plant injuries, Roots, Sorghum, Tissues.

9575-69
OCCURRENCE OF ROSE STREAK VIRUS IN SOUTH AFRICA.
P J Klesser
S Afr J Agr Sci 10(3):847-856
Sep 1967 24 SU3
Disease transmission, Rosaceae, Streak, Symptomatology, Virus diseases (plants).

9576-69
MWITUNDE GROUNDNUTS AND THEIR REACTION TO VIRUS INFECTION IN SOUTH AFRICA.
P J Klesser
S Afr J Agr Sci 10(3):675-686
Sep 1967 24 SU3
Peanuts, Plant disease resistance, Virus diseases (plants).
Mwitunde groundnuts in South Africa were found to be more tolerant of viruses infecting peanuts than other varieties.

9577-69
THE INFLUENCE OF IRRIGATION ON THE OCCURRENCE OF DISEASES AND PESTS OF AGRICULTURAL CROPS. (REVIEW). (CZ)
F Kodys
Stud Inform Ochrana Rost (1):40P REF
1967 SB599.S8
Crops, Cultural control (insects), Cultural control (plant diseases), Host indexing (plants), Insect pests, Irrigation, Microclimate, Plant diseases. English, German and Russian summaries.

9578-69
THE OCCURRENCE OF A PHYTOPHTHORA ROOT AND LEAF DISEASE OF BLACK PEPPER IN JAMAICA.
R I Leather
China Plant Protect Bull 15(1):15-16
Feb 1967 464.9 C47
Fungus diseases (plants), Pepper (spice), Phytophthora, Plant diseases.

9579-69
PRESENT KNOWLEDGE ON THE APHIDS IN THEIR RELATIONSHIPS WITH VIRUS DISEASES TRANSMISSION. (FR)
F Leclant
Ann Epiphyt 19(3):455-482 REF
1968 464.9 F84AN
Aphididae, Bibliography, Insect vectors, Virology, Virus diseases (plants). English abstract.

9580-69
INTRODUCED SEED-BORNE PATHOGENS ENDANGER CROP BREEDING AND PLANT INTRODUCTION.
E E Leppik
China Plant Protect Bull 16(4):57-63 REF
Aug 1968 464.9 C47

Fungus diseases (plants), Plant breeding, Plant quarantine, Seed-borne plant diseases, Virus diseases (plants).

9581-69
A CONTRIBUTION TO THE STUDY OF ALTERNARIA TENUIS NEES CAUSER OF THE LEAF SPOT OF TOMATO. (SE)
S Lucic
Zastita Bilja 18(93/95):161-168
1967 464.8 Z1
Alternaria tenuis, Chemical control (plant diseases), Conidia, Fungus diseases (plants), Leaf spot, Maneb, Plant disease transmission, Plant morphology, Plant physiology, Polyethylene thiuram sulfides, Seedlings, Temperature, Tomatoes. English summary.

9582-69
INHERITANCE OF RESISTANCE TO THREE RACES OF LEAF RUST IN WHEAT VARIETY BOWIE.
J K Luthra S M A Naqvi M C Tyagi R N Sawhney
Indian J Genet Plant Breeding 27(3):423-425
Nov 1967 64.8 IN2
Fungus diseases (plants), Inheritance, Leaf rust, Plant disease resistance, Plant genetics, Wheat.

9583-69
THE INFLUENCE OF ECTOTROPHIC MYCORRHIZAL FUNGI ON THE RESISTANCE OF PINE ROOTS TO PATHOGENIC INFECTIONS. I. ANTAGONISM OF MYCORRHIZAL FUNGI TO ROOT PATHOGENIC FUNGI AND SOIL BACTERIA.
D H Marx
Phytopathology 59(2):153-163 REF
Feb 1969 464.8 P56
Bacterial diseases (plants), Fungus diseases (plants), Growth factors, Inhibitors, Laccaria laccata, Lactarius deliciosus, Leucopaxillus cerealis, Mycorrhiza, Phytophthora cinnamomi, Pinus, Pisolithus tinctorius, Plant disease resistance, Roots, Soil bacteria, Soil microorganisms, Suillus luteus.

9584-69
ENTYLOMA COMPOSITARUM FARLOW ON GAILLARDIA PULCHELLA, NEW PARASITE IN YUGOSLAVIA. (SE)
M Miric
Zastita Bilja 18(93-95):189-192
1967 464.8 Z1
Entyloma compositarum, Fungus diseases (plants), Gaillardia pulchella. English summary.

9585-69
DICARBAMATE DERIVATIVES OF ALKYLADAMANTANES. PATENT 3,450,744.
R E Moore
Us Patent Office Offic Gaz 863(3):891
12 Jun 1969 156.65 OF2
Carbamates, Mosaic, Patents, Poliomyelitis, Tobacco, Virucides, Viruses.

9586-69
3,4-DIHYDROXYBENZALDEHYDE, A FUNGISTATIC SUBSTANCE FROM GREEN CAVENDISH BANANAS.
D Mulvena E C Webb B Zerner
Phytochemistry 8(2):393-395
Feb 1969 450 P5622
Bananas, Colletotrichum circinans, Fungi, Fungicides, Fungus diseases (plants), Gloeosporium musarum, Growth factors, Inhibitors, Protocatechualdehyde, Ripe rot, Toxicity, Tropical fruit.

9587-69
CONTROL OF POWDERY MILDEW WITH NITRONAPHTHONITRILES. PATENT 3,432,601.
I Okuda E Yoshinaga T Tsuboi
Us Patent Office Offic Gaz 860(2):581
11 Mar 1969 156.65 OF2
Bactericides, Chemical control (plant diseases), Fungi, Fungicides, Naphthonitrile compounds, Patents, Powdery mildew.

9588-69
DETERMINATION OF THE CRITICAL INJURY THRESHOLD FOR POTATO BLIGHT (PHYTOPHTHORA INFESTANS).
B Olofsson
Swed Stat Vaxtskyddsanst Medd 14(119):81-93
1968 464.9 SW3M
Blight, Fungus diseases (plants), Phytophthora infestans, Plant injuries, Plant protection, Potatoes. Swedish summary

9589-69
SYMPTOMS OF STUBBORN DISEASE IN CITRUS AND PONCIRUS FRUIT GRAFTED ONTO VIRUS-INFECTED SEEDLINGS.
E O Olson
Phytopathology 59(2):168-172 REF
Feb 1969 464.8 P56
Citrus, Fruit, Plant grafting, Plant physiology, Seedlings, Stubborn disease, Trifoliate oranges, Virus diseases (plants).

9590-69
SIX POWDERY MILDEWS FROM JAMMU AND KASHMIR STATE.
V R Pandotra J L Kachrod K S M Sastry
Inc Acad Sci Proc 67(3):119-124
Mar 1968 513 IN25B
Economic plants, Erysiphe, Phyllactinia, Pleochaeta, Powdery mildew, Sphaerotheca, Uncinula.

9591-69
A STUDY OF THE BIOLOGY OF STEMPHYLIUM BOTRYOSUM WALL. -PLEOSPORA HERBARUM (PERS.) RABENH.- THE CAUSER OF BROWN SPOTS ON ALFALFA LEAVES. (SE)
M Perisic D Stojanovic
Zastita Bilja 18(93/95):37-44
1967 464.8 Z1
Alfalfa, Brown spot, Defoliation, Fungus diseases (plants), Leaves, Parasitism, Plant injuries, Pleospora herbarum, Stemphylium botryosum, Temperature. English summary.

9592-69
ACTIVITY OF MYXIN AGAINST CERATOCYSTIS ULMI.
E A Peterson
Can J Microbiol 15(1):133-135
Jan 1969 448.8 C162
Antibiotics, Bacterial diseases (plants), Ceratocystis ulmi, Dieback, Inhibitors, Microorganisms, Myxin, Ulmus.

9593-69
CLOVER YELLOW VEIN VIRUS IN NORTH AMERICA.
M J Pratt
Plant Dis Rep 53(3):210-212 REF
Mar 1969 1.9 P69P
Beans, Chenopodium amaranticolor, Clover, Host indexing (plants), Peas, Tobacco, Virus diseases (plants), White clover, Yellow vein.

9594-69
MECHANICAL TRANSMISSION OF COCONUT LETHAL YELLOWING.
W C Price A P Martinez D A Roberts
China Plant Protect Bull 15(6):105-108 REF
Dec 1967 464.9 C47
Coconuts, Lethal yellowing (coconuts), Plant disease transmission, Zoogeography.

9595-69
DISRUPTION OF WATERMELON MOSAIC VIRUS-INDUCED INCLUSIONS BY PHOSPHOTUNGSTATE.
D E Purcifull
Virology 36(4):690-693 REF
Dec 1968 448.8 V81
Electron microscopes, Inclusion bodies, Mosaic, Phosphotungstic acid, Plant extracts, Virology, Virus diseases (plants), Watermelons.

9596-69
MONILIA LAXA AS AN IMPORTANT FACTOR REDUCING THE YIELD OF SOME PLUM VARIETIES (MONILIA LAXA (EHRENB.) ADERH. ET RUBL.). (SE)
L Radman
Zastita Bilja 18(93/95):85-92
1967 464.8 Z1
Crop varieties, Crop yields, Fruit, Fungus diseases (plants), Grapholitha funebrana, Hoplocampa, Monilia laxa, Peaches, Plant disease resistance, Plums, Sour cherries. English summary.

9597-69
RIBONUCLEASE ISOZYMES IN CHINESE CABBAGE SYSTEMICALLY INFECTED WITH TURNIP YELLOW MOSAIC VIRUS.
J W Randles
Virology 36(4):556-563 REF
Dec 1968 448.8 V81
Chinese cabbage, Electrophoresis, Plant extracts, Ribonuclease, Turnips, Virology, Virus diseases (plants), Yellow mosaic.

9598-69
OCCURRENCE OF PADDY VIRUS AND VIRUSLIKE SYMPTOMS IN INDIA.
S P Raychaudhuri M D Mishra A Ghosh
Baltimore, John Hopkins Press. 59-65 REF
1969 NB633.C2
Cicadellidae, Leaf rust, Rice, Virus diseases (plants).

9599-69
RACES OF CROWN RUST IN SOUTH AFRICA.
D J Rossouw J A Truter
S Afr J Agr Sci 10(4):1065-1066
Dec 1967 24 SU3
Crown rust, Fungus diseases (plants), Oats, Plant pest resistance, Puccinia coronata.

Varieties of the fungus causing crown rust, Puccinia coronata, were surveyed on seven standard strains of oats to note any pathogenic changes in the occurrence and prevalence of the disease in South Africa.

9600-69
EFFECT OF INFECTION OF CORN BY THE FUNGUS USTILAGO ZEAE ON THE PROPERTIES OF THE CHLOROPHYLL-PROTEIN COMPLEX.
B A Rubin E N Lushchinskaya
Acad Sci U Ssr Dokl Bot Sci 179(MAR-APR):55-57 REF
1968 511 P444AE
Chlorophylls, Corn, Fungus diseases (plants), Plant biochemistry, Plant physiology, Proteins, Ustilago zeae. Translated from Russian.

9601-69
FUNCTIONS OF THE TWO PARTICLES OF TOBACCO RATTLE VIRUS.
H L Sanger
J Virology 3(3):304-312 REF
Mar 1969 QR360.J6
Electron microscopy, Physiology, Rattle disease, Ribonucleic acid, Serodiagnosis, Tobacco, Virus diseases (plants).

9602-69
INVESTIGATIONS ON THE SUSCEPTIBILITY OF POTATO TUBERS TO FUSARIUM CAERULEUM (LIB.) SACC., THE FUNGUS CAUSING DRY ROT. (GE)
K Schoene
Phytopathol Z 60(3):201-236 REF
Nov 1967 464.8 P562
Dry rot, Fungus diseases (plants), Fusarium caeruleum, Oxygen, Plant injuries, Potatoes, Storage, Temperature, Tubers. English summary.

9603-69
VALUE OF IMMUNE MOUSE ASCITIC FLUID IN PLANT VIRUS SEROLOGY.
H A Scott K S Kim J L Dale
Phytopathology 59(2):233-234
Feb 1969 464.8 P56
Antibodies, Ascites, Blood serum, Mice, Plant disease control, Serological tests, Virology, Virus diseases (plants).

9604-69
ANTIBIOTIC SL 2266. PATENT 3,432,598.
H Sigg C Stoll
Us Patent Office Offic Gaz 860(2):580
11 Mar 1969 156.65 OF2
Antibiotics, Antiseptics, Cells, Fungi, Fungicides, Neoplasms, Patents, Sl 2266, Sordaria.

9605-69
BLASTEMOMRPHOUS STAGE OF FORMATION OF GALLS CAUSED BY USTILAGO MAYDIS (DC.) CDA ON CORN LEAVES.
E I Slepyan
Acad Sci U Ssr Dokl Bot Sci 178(JAN-FEB):17-19
1968 511 P444AE
Corn, Fungus diseases (plants), Leaves, Neoplasms, Plant galls, Ustilago maydis. Translated from Russian.

9606-69
BLASTEMOMORPHOUS STAGE OF FORMATION OF GALLS CAUSED BY INFECTION BY USTILAGO MAYDIS (D. C.) CDA ON LEAVES OF ZEA MAYS L.
E I Slepyan I V Karatygin
Acad Sci U Ssr Dokl Bot Sci 178(JAN-FEB):13-16
1968 511 P444AE
Corn, Erythrodermia, Fungus diseases (plants), Leaves, Necrosis, Symptomatology, Ustilago maydis. Translated from Russuan.

9607-69
POSTHARVEST DISEASES OF GUAVA IN INDIA.
M P Srivastava R N Tandon
Plant Dis Rep 53(3):206-208 REF
Mar 1969 1.9 P69P
Fungus diseases (plants), Glocosporium psidii, Guavas, Pestalotia psidii, Phoma psidii, Phomopsis psidii, Physalospora rhodina, Rhizopus stolonifer, Storage.

9608-69
DNA BASE COMPOSITION AND TAXONOMY OF PHYTOPATHOGENIC AND OTHER ENTEROBACTERIA.
M P Starr M Mandel
J Gen Microbiol 56(1):113-123 REF
Apr 1969 448.3 J823
Bacteria, Deoxyribonucleic acid, Methodology, Plant biochemistry, Taxonomy.

9609-69
HELMINTHOSPORIUM LEAF BLIGHT- A NEW DISEASE OF COTTON IN THE PUNJAB AND HARYANA.
D Suryanarayana P S Bedi N N Tripathi
Prog Farming 5(1):62-65
Mar 1968 S19.P8
Cotton, Crop varieties, Diagnosis, Fungus diseases (plants), Helminthosporium spiciferum, Leaf blight (cotton), Plant disease resistance.

9610-69
SOWBANE MOSAIC VIRUS INFECTING CHENOPODIUM TRIGONON IN QUEENSLAND.
D S Teakle
Australian J Biol Sci 21(4):649-653
Aug 1968 442.8 AU72
Chenopodium, Electron microscopy, Mosaic, Plant geography, Serological tests, Virus diseases (plants).

A virus isolated from fish weed, Chenopodium trigonon, in Australia, showed serological properties, host range, symptoms, and physical properties similar to those of sowhane mosaic virus.

9611-69
ELECTRON MICROSCOPIC OBSERVATION OF CRYSTALLINE ARRAYS OF VIRUS-LIKE PARTICLES IN TISSUES OF MINK WITH ALEUTIAN DISEASE.
K S Tsai I Grinyer I C Pan L Karstad
Can J Microbiol 15(1):138-140 REF
Jan 1969 448.8 C162
Aleutian disease, Electron microscopy, Foot-and-mouth disease virus, Kidneys, Laboratory animals, Minks, Tesehen disease virus, Virus diseases (animals).

9612-69
COCOA DIEBACK- A REVIEW OF PRESENT KNOWLEDGE.
P D Turner
China Plant Protect Bull 15(5):81-101 REF
Oct 1967 464.9 C47
Cocoa, Dieback, Plant ecology, Plant nutrition, Reviews, Zoogeography.

9613-69
SYSTEMIC CONTROL OF EXOBASIDIUM VEXANS ON TEA WITH 1,4-OXATHIIN DERIVATIVES.
C S Venkata Ram
Phytopathology 59(2):125-128 REF
Feb 1969 464.8 P56
Blister blight, Chemical control (plant diseases), Exobasidium vexans, Fungus diseases (plants), Oxathiins, 1,4-, Seed treatment, Spraying, Systemic insecticides, Tea.

9614-69
PROGRESS ON CITRUS VIRUS DISEASES THROUGH INTERNATIONAL CO-OPERATION AND SOME PROBLEMS AND RESEARCH NEEDS IN THE PACIFIC REGION.
J M Wallace
China Plant Protect Bull 15(6):109-114 REF
Dec 1967 464.9 C47
Citrus, Surveys, Virus diseases (plants).

9615-69
SEQUENCE STUDIES OF SATELLITE TOBACCO NECROSIS VIRUS RNA; ISOLATION AND CHARACTERIZATION OF A 5'-TERMINAL TRINUCLEOTIDE.
E Wimmer A Y Chang J M Clark M E Reichmann
J Molec Biol 38(1):59-73 REF
28 Nov 1968 442.8 J8224
Kinases, Necrosis, Nucleotidases, Phosphorylation, Ribonucleic acid, Tobacco, Virus diseases (plants).

9616-69
RECENT ADVANCES IN THE CONTROL OF SOIL FUNGI.
G A Zentmyer
China Plant Protect Bull 15(1):1-5
Feb 1967 464.9 C47
Biological control, Fungicides, Phytophthora, Plant disease resistance, Soil fungi, Steam.

9617-69
VIRUS RATINGS OF CORN STRAINS IN MISSOURI, 1968.
M S Zuber A J Keaster N G Weir C F Stark P J Loesch
Mo Agr Exp Sta Res Bull (102):15P
Nov 1968 100 M693 (3)
Corn, Crop varieties, Tables (data), Virus diseases (plants).

ARTHROPODS

9618-69
OVICIDAL AND LARVICIDAL ACTIONS OF PETKOLIN AGAINST RED SPIDER MITES (ACARINA: TETRANYCHIDAE).
T Ahmed M Anwarullah
Pakistan J Sci Indus Res 11(4):455-456
Oct 1968 475 P174
Aramite, Chemical control (insects), Chlorinated hydrocarbons, Chlorobenzilate, Larvicides, Ovicides, Petkolin, Tetranychus telarius.

9619-69
TRANSMISSION INTENSITY OF STOLBUR VIRUS BY MEANS OF HYALESTHES OBSOLETUS SIGN. ON SOME HOST PLANTS. (SE)
Z Aleksic D Sutic D Aleksic
Zastita Bilja 18(93/95):67-73
1967 464.8 Z1
Cicadellidae, Convolvulus arvensis, Eggplant, Hyalesthes obsoletus, Insect vectors, Piper nigrum, Plant disease transmission, Stolbur, Symptomatology, Tomatoes, Virus diseases (plants). English summary.

9620-69
NEW ELECTRONIC CONCEPTIONS ON ACTOGRAPHY APPLIED TO THE STUDY OF INVERTEBRATES. (FR)
A J Andrien
Ann Epiphyt 19(3):483-499 REF
1968 464.9 F84AN
Electrical engineering, Insect physiology, Laboratory equipment, Sound waves, Vibration. English abstract.

9621-69
THE ESTABLISHMENT OF METAPHYCUS HELVOLUS (COMPERE) (HYM. ENCYRTIDAE) ON SAISSETIA OLEAE (BERN.) (HOM. COCCIDAE) IN OLIVE GROVES IN GREECE.
L C Argyriou P Detbach
Entomophaga 13(3):223-228
1968 421 EN835
Biological control (insects), Encyrtidae, Metaphycus, Olives, Saissetia oleae.

9622-69
THE CHEMICAL CONTROL OF THE DIPLOPODA OF BEETS. (FR)
J Biernaux
Bull Recherch Agron Gembloux (N s)3(1):26-35 REF
1968 S5.B8
Aldrin, Beets, Chemical control (insects), Diplopoda, Heptachlor, Insect biology, Insecticide application, Insecticides, Parathion, Plant pest control.

9623-69
RECENT INTRODUCTIONS FOR BIOLOGICAL CONTROL IN HAWAII-XIII.
C J Davis M Chong
Hawaii Entomol Soc Proc 20(1):25-34 REF
Jun 1968 420 H312
Biological control (pests), Insects, Reviews, Snails, Weeds.

9624-69
RECENT INTRODUCTIONS FOR BIOLOGICAL CONTROL IN HAWAII-XII.
C J Davis N L H Krauss
Hawaii Entomol Soc Proc 19(3):375-380 REF
Jun 1967 420 H312
Biological control (pests), Insects, Reviews, Snails, Weeds.

9625-69
A CURRENT REVIEW OF THE USE OF INSECTICIDES IN AGRICULTURE.
E Dunn
Scot Agr 46(4,AUTUMN):181-183
1967 10 SCO82SO
Chemical control (insects), Chlorinated hydrocarbons, Crop yields, Insecticides, Organophosphorus insecticides, Reviews.

The use of chlorinated hydrocarbons and organophosphorous compounds as insecticides and the resulting increase in crop yields are reviewed.

9626-69
PESTS AND DISEASES OF THE DATE PALM. PART I. MITES, INSECTS AND NEMATODES.
H S Elmer J B Carpenter L J Klotz
China Plant Protect Bull 16(5):77-91
Oct 1968 464.9 C47
Acarina, Biology, Chemical control (pests), Dates, Insects, Nematodes, Plant diseases, Reviews, Surveys.

9627-69
VECTORS OF HOJA BLANCA VIRUS.
T R Everett
Baltimore, John Hopkins Press. 111-121 REF
1969 NB633.C2

Chemical control (insects), Hoja blanca, Insect vectors, Organophosphorus compounds, Rice, Virus diseases (plants).

9628-69
EFFICACY OF DISULFOTON FOR CONTROL OF THE GREEN PEACH APHID, MYZUS PERSICAE, ON PEPPERS.
W H Foott F G von Stryk P R Timmins
Can Entomol 101(4):375-382 REF
Apr 1969 421 C16
Chemical control (insects), Disulfoton, Insecticides, Myzus persicae, Pepper.

9629-69
FIRST OBSERVATIONS OF DAMAGE TO OLIVE TREES, CAUSED BY A CECIDOMYDE. CLINODIPLOSIS OLEISUGA TARG.(DIPT. CECIDOMYDAE). (FR)
A Hafraoui
Awamia (20):139-141
Jul 1968 24 AW1
Cecidomyiidae, Clinodiplosis oleisuga, Insect biology, Insect control, Insect pests, Insect rearing, Olives, Tree injuries.

9630-69
NEXT MOVE AGAINST THE GRASSGRUB.
R A Harrison C P Hoyt G O Osborne
New Zeal J Agr 118(6):17
Jun 1969 23 N48J
Chemical analysis, Chemical control (insects), Costelytra zealandica, Insect biochemistry, Insecticides, Sex attractants.

9631-69
TRANSMISSION OF DWARF, YELLOW DWARF, STRIPE, AND BLACK-STREAKED DWARF.
T T Iida A Shinkai
Baltimore, John Hopkins Press. 125-129 REF
1969 NB633.C2
Black-streaked dwarf, Dwarf disease, Insect vectors, Nephotettix, Plant disease transmission, Rice, Stripe, Virus diseases (plants), Yellow dwarf.

9632-69
INFLUENCE OF HIGH TEMPERATURES ON THE PATHOGENICITY AND SURVIVAL OF WESTERN X-DISEASE VIRUS IN LEAFHOPPERS.
D D Jensen
Virology 36(4):662-667 REF
Dec 1968 448.8 V81
Celery, Cicadellidae, Colladonus montanus, Insect vectors, Temperature, Thermotherapy, Virus diseases (plants), Western X.

9633-69
COMMERCIAL VEGETABLE INSECT CONTROL.
G F Knowlton D W Davis R S Roberts
Utah State Univ Ext Ext Circ 300:29P
Apr 1969 275.29 UTI
Bees, Chemical control (insects), Chemical control (nematodes), Cultural control (insects), Insect pests, Insecticide application, Insecticides, Maggots, Pesticides, Plant nematodes, Spraying, Vegetables.

9634-69
OBSERVATIONS ON THE ECOLOGY OF THAIA ORYZIVORA, A LEAFHOPPER FOUND ON RICE IN THAILAND.
J Leevwangh P Levamsang
China Plant Protect Bull 15(2):30-31
Apr 1967 464.9 C47
Cicadellidae, Insect ecology, Population, Rice.

9635-69
THE ROLE OF HAMPEA SP. IN THE MIGRATION OF THE COTTON LEAFWORM TO THE UNITED STATES.
M J Lukefahr P A Fryxell
J Econ Entomol 62(1):263-264
17 Feb 1969 421 J822
Alabama argillacea, Anthonomus grandis, Hampea, Insect migration, Insect pests, Longevity, Plants.

9636-69
NEW LARGE-SCALE EXPERIMENTATION IN BIOLOGICAL CONTROL OF THE OLIVE FLY (DACUS OLEA GMEL.) BY MEANS OF OPIUS CONCOLOR SICULUS MON. IN SICILY IN 1967. (FR)
S Monastero
Entomophaga 13(3):251-261 MAP
1968 421 EN835
Biological control (insects), Dacus oleae, Field studies, Opius concolor. English abstract.

9637-69
A NEW METHOD OF CABBAGE ROOT FLY CONTROL.
P Osborne
Scot Agr 46(2,SPRING):92-95
1967 10 SCO82SO
Cabbage, Chlorfenvinphos, Diazinon, Disulfoton, Hylemya brassicae, Insect control, Insecticide application, Methodology, Organophosphorus compounds, Phorate.

9638-69
NOTE ON THE EFFECTS OF CERTAIN WILD PLANTS, TEMPERATURE AND INSECTICIDES ON THE GROWTH AND DEVELOPMENT OF AGROTIS SEGETUM SCHIFFER-MUELLER (LEPIDOPTERA: NOCTUIDAE).
S N Pandey J K Bogawat
Indian J Agr Sci 38(5):826-827
Oct 1968 22 AG83I
Agrotis segetum, Aldrin, Benzene hexachloride, Carbaryl, Chemical control (insects), Chlordane, Food plants, Insect morphology, Noctuidae, Temperature.

The growth and development of the cutworm, Agrotis segetum, was retarded by dietary intake, low temperature and was inhibited by chlordane, aldrin, BHC and carbaryl.

9639-69
EFFECTIVENESS OF A LIGHT TRAP IN THE PROTECTION OF THE HEALTH AND PRODUCTIVITY OF CORN. (IT)
R Prota G Delrio
Stud Sassaresi Sez III 15(2):293-307 REF
1967 507 SA75A
Corn, Costs, Crop yields, Insect control, Insect pests, Insect traps, Lepidoptera, Light traps, Plant protection, Plant protection equipment, Sesamia. English summary.

9640-69
THE DEFENSE OF A CORN CROP AGAINST NOXIOUS INSECTS BY MEANS OF A LIGHT TRAP. (IT)
R Prota
Stud Sassaresi Sez III 15(2):267-292 REF
1967 507 SA75A
Corn, Crop varieties, Insect control, Insect pests, Insect traps, Lepidoptera, Light traps, Ostrinia nubilalis, Plant protection, Sesamia nonagrioides. English summary.

9641-69
THE MITE ACERIA TULIPAE (ERIOPHYIDAE)--VECTOR OF THE ONION MOSAIC VIRUS. (RUS)
G M Razvyazkina E A Kapkova N P Cheremushkina
Zool Zhur 48(2):288-289
Feb 1969 410 R92
Aceria tulipae, Aphididae, Insect vectors, Mosaic, Onions. English abstract

9642-69
NEW HOSTS, DISTRIBUTION, AND BIOLOGICAL NOTES ON AN IMPORTED AMBROSIA BEETLE, XYLOSANDRUS GERMANUS (COLEOPTERA: SCOLYTIDAE).
I Schneider M H Farrier
Can Entomol 101(4):412-415 REF
Apr 1969 421 C16
Insect biology, Nyssa, Prunus serotina, Scolytidae, Taxodium distichum, Zoogeography.

9643-69
HOME ORCHARD PEST CONTROL.
M C Shurtleff R Randell D B Meador
Ill Univ Ext Circ 1001:7P
Apr 1969 275.29 IL62C
Birds, Chemical control (pests), Chlorinated hydrocarbons, Cultural control (insects), Formulations, Fruit, Insect pests, Mice, Orchards, Organophosphorus compounds, Pesticide application, Pesticides, Rabbits, Spraying, Thiocarbamates.

9644-69
FLY PESTS AFFECT SOME CROPS IN NORTHLAND.
W Stacey
New Zeal J Agr 118(1):74-75
Jan 1969 23 N48J
Chemical control (insects), Cucumbers, Diazinon, Dichlorvos, Larvae, Malathion, Methyl parathion, Nicotine, Sciara annulata, Trichlorfon.

The larvae of Sciara annulata have become a major pest of cucumbers in New Zealand. Dichlorvos, malathion, nicotine sulfate, and methyl parathion have been shown to control these insects effectively.

9645-69
COMPARATIVE ELECTRON MICROGRAPHS OF SOWTHISTLE YELLOW VEIN AND VESICULAR STOMATITIS VIRUSES.
E S Sylvester J Richardson P Wood
Virology 36(4):693-696
Dec 1968 448.8 V81
Aphididae, Electron microscopes, Insect vectors, Sonchus, Vesicular stomatitis virus, Virology, Virus diseases (animals), Virus diseases (plants), Yellow vein.

9646-69
SOME NEW HOST PLANTS OF THE SUNFLOWER MOTH IN TEXAS.
G L Teets N M Randolph
J Econ Entomol 62(1):264-265
17 Feb 1969 421 J822
Feeding, Homeosoma electellum, Insect pests, Plants, Seeds. 11 new host plants were listed.

9647-69
PRELIMINARY STUDIES ON THE INCIDENCE OF SHOOTFLY (ATHERIGONA INDICA) ON HYBRID JOWAR UNDER DIFFERENTIAL SOWINGS.
S Usman
Mysore J Agr Sci 2(1):44-48
1968 S19.M9
Atherigona indica, Climate, Crop varieties, Durra, Insect pests, Plant dissemination.

9648-69
OBSERVATIONS ON CROP PESTS IN THE SUDAN IN 1966-67.
T V Venkatraman E El Khidir
China Plant Protect Bull 15(6):115-116
Dec 1967 464.9 C47
Plant pests, Surveys.

9649-69
NOTE ON TRICHOGRAMMA JAPONICUM ASHM., AN EGG PARASITE OF INTERNODE-BORER (PROCERAS INDICUS KAPUR) OF SUGARCANE IN MADRAS STATE.
S Venugopal H Subramanian R Natarajan
Indian J Agr Sci 38(5):874-875
Oct 1968 22 AG83I
Biological control (insects), Egg parasite, Natural control (insects), Parasitic insects, Proceras indicus, Sugarcane, Trichogramma japonicum, Weather.

Optimum climatic conditions for Trichogramma japonicum parasitization of Proceras indicus were found and the possibilities for developing this as a biological control for this internode borer of sugarcane are discussed.

9650-69

9650-69
ON THE EXTINCTION OF THE ASIATIC RICE BORER CHILO SUPPRESSALIS IN HAWAII.
K Yasumatsu T Nishida H A Bess
Hawaii Entomol Soc Proc 20(1):239-245 REF
Jun 1968 420 H312
Biological control (insects), Chilo suppressalis, Insect outbreaks.

NEMATODES

9651-69
THE EELWORM PROBLEM IN GLASSHOUSE TOMATOES.
E Dunn
Scot Agr 46(2,SPRING):87-89
1967 10 SCO82SO
Greenhouses, Heterodera rostochiensis, Nematocides, Nematode control, Plant nematodes, Soil sterilization, Tomatoes.

9652-69
TRANSMISSION OF TOBACCO RINGSPOT VIRUS TO THE ROOTS OF A CONIFER BY A NEMATODE.
J P Fulton
Phytopathology 59(2):236
Feb 1969 464.8 P56
Coniferae, Cupressus arizonica, Nematode vectors, Plant disease transmission, Plant nematodes, Ring spot, Roots, Tobacco, Virus diseases (plants), Xiphinema americanum.

9653-69
ASSESSMENT OF CROP LOSSES CAUSED BY NEMATODES IN THE UNITED STATES.
J M Good
China Plant Protect Bull 16(3):37-40
Jun 1968 464.9 C47
Crop losses, Economics, Plant nematodes, Surveys.

9654-69
ROOT NEMATODE (MELOIDOGYNE NAASI FRANKLIN) IN SERBIA (PRELIMINARY COMMUNICATION). (SE)
G Grujicic
Zastita Bilja 18(93/95):193-197
1967 464.8 Z1
Barley, Mangel-wurzel, Meloidogyne naasi, Parasitism, Plant nematodes, Roots, Sugar beets, Wheat. English summary.

9655-69
NEMATODES ASSOCIATED WITH DECLINING COCONUT PALMS.
K Maramorosch A m Goldlen
China Plant Protect Bull 15(2):38-39
Apr 1967 464.9 C47
Coconuts, Nematodes, Plant nematodes, Surveys.

9656-69
DYNAMICS OF THE PERMEATION OF NEMATODES BY WATER, NEMATOCIDES AND OTHER SUBSTANCES.
C F Marks I J Thomason C E Castro
Exp Parasitol 22(3):321-337 REF
Jun 1968 436.8 EX7
Anguina tritici, Aphelenchus avenae, Chlorinated hydrocarbons, Dibromo-3-chloropropane, 1,2-, Ethylene dibromide, Glucose, Glycine, Nematocides, Nematodes, Permeability, Rhizoctonia solani, Sodium acetate, Tylenchulus semipenetrans, Water.

9657-69
STUDY OF NEMATODES CAUSERS OF ROOT SPOT- PRATYLENCHUS SPP. (SE
K Olga
Zastita Bilja 18(93/95):133-142
1967 464.8 Z1
Barley, Crop rotation, Fungus diseases (plants), Plant nematodes, Pratylenchus, Pratylenchus crenatus, Pratylenchus neglectus, Pratylenchus thornei, Root rot, Root spot, Wheat. English summary.

WEEDS

9658-69
VENDETTA AGAINST WEEDS.
Anonymous
Farm Quart 24(1,SPRING):90-91, 126, 128
1969 6 F22995
Chemical control (weeds), Cultural control (weeds), Herbicides, Soybeans, Trifluralin, Vernolate.

9659-69
YOUNG HAYWOOD COUNTY FARMER TEAM: HOW THEY SOLVE SOME TRICKY PROBLEMS.
Anonymous
Tennessee Farmer 16(2):4H
Feb 1969 S115.T42
Agricultural economics, Agricultural labor, Chemical control (weeds), Cotton, Herbicides. Treflan, herban, MSMA, DSMA, cotoran, bidrin and 4-2-1 toxaphene-ddt-methyl were tested.

9660-69
MISSISSIPPI RATINGS GIVEN TO COTTON HERBICIDES.
Anonymous
Miss Farmer 17(4):24
Apr 1969 6 M6992
Chemical control (weeds), Cotton, Herbicides, Weeds. Herbicides were rated according to their effectiveness.

9661-69
CASORON--A NEW WEED KILLER TO PROTECT WOODY PLANTS.
Anonymous
Arnoldia 29(4):21-24
18 Apr 1969 451 AR6BA
Agropyron repens, Chemical control (weeds), Dichlobenil, Shrubs, Weed control.

9662-69
NEW HERBICIDE INTRODUCED FOR BUCKWHEAT CONTROL IN CEREAL LANDS.
Anonymous
Farmers Weekly 116:59,62
30 Oct 1968 24 F225
Bromoxynil, Buckwheat, Chemical control (weeds), Field crops, Grain, Herbicides.

9663-69
CROP SEEDLING UPTAKE OF DDT, DIELDRIN, ENDRIN, AND HEPTACHLOR FROM SOILS.
M L Beall R G Nash
Agron J 61(4,JUL-AUG):571-575 REF
Aug 1969 4 AM34P
Absorption, Crops, Dieldrin, DDT, Endrin, Heptachlor, Insecticides, Pesticide residues, Seedlings.

9664-69
PRELIMINARY RESEARCH ON THE ACTION OF C. C. C. ON GRAPES. (FR)
R Bonnet J Lhoste L Penchi B Pascalon
Paris Acad Agr France Compt Rend Hebd Seances 54(9):708-712
19 Jun 1968 14 P215BC
Chloroethyl)trimethylammonium chloride, (2-, Crop yields, Grapes, Plant regulators.

9665-69
CONTROL OF DODDER IN HOME GARDENS.
L L Danielson
Amer Hort Mag 48(1,WINTER):41-43
1969 80 N216
Chemical control (weeds), Chlorinated hydrocarbons, Chloropropham, Cuscuta, Dimethyl tetrachloroterephthalate, Gardens, Herbicides, Methyl bromide, Soil fumigation.

9666-69
THE INFLUENCE OF THE STEPPES INUNDATION AND ENLARGEMENT OF THE AREA OF CULTIVATION UPON DISTRIBUTION AND NUMBERS OF HARMFUL RODENTS OF AZERBAIJAN. (RUS)
T S Gladkina
Zool Zhur 47(12):1840-1850
Dec 1968 410 R92
Chemical control (pests), Pastures, Rodents, Zoogeography. English abstract

9667-69
THE STATUS OF BIOLOGICAL CONTROL OF THE WEED HYPERICUM PERFORATUM IN BRITISH COLUMBIA.
P Harris D Peschken J Milroy
Can Entomol 101(1):1-15 REF
Jan 1969 421 C16
Agrilus hyperici, Arid regions, Biological control (weeds), Chrysolina hyperici, Chrysolina quadrigemina, Chrysolina varians, Humidity, Hypericum perforatum, Insect dissemination, Insect ecology, Zeuxidiplosis giardi.

9668-69
MANAGEMENT AND WEED CONTROL.
W W Huffine
(PT 1):1-13
Dec 1965 60.19 OK4
Chemical control (weeds), Cynodon dactylon, Herbicide application, Herbicides.

Many herbicides are listed. The weeds discussed are: Smooth crabgrass, hentgrass, Sunturf bermuda, Silver Crab, annual bluegrass, Seaside bentgrass, hairy crabgrass, hembit, and chickweed.

9669-69
HERBICIDAL ETHER. PATENT 3,450,522.
D V Lopiekes
Us Patent Office Offic Gaz 863(3):854
17 Jun 1969 156.65 OF2
Ethers, Herbicides, Patents.

9670-69
TOLERANCE. OF SORGHUM BICOLOR (L.) MOENCH TO SEVERAL HERBICIDES.
F R Miller R W Bovey
Agron J 61(2,MAR-APR):282-285 REF
Apr 1969 4 AM34P
Herbicide resistant plants, Herbicides, Inheritance, Plant geography, Sorghum, Tolerances.

9671-69
HERBICIDAL N-HALO-ALPHA-HALOACETANILIDES. PATENT 3,450,521.
J F Olin P C Hamm
Us Patent Office Offic Gaz 863(3):854
17 Jun 1969 156.65 OF2
Haloacetamides, alpha-, Herbicides, Patents.

9672-69
SOME HERBICIDAL AND PHYSIOLOGICAL EFFECTS OF 3,4-DICHLOROPROPIONANILDE (STAM F-34) ON AMMANNIA BACCIFERA L.
J Prakash
Prog Farming 5(1):58-61
Mar 1968 S19.P8
Ammannia baccifera, Chemical control (weeds), Dosage, Herbicides, Plant physiology, Propanil, Rice.

9673-69
RESEARCH CONCERNING THE EFFECTIVENESS OF SOME HERBICIDES IN CONTROLLING THE WEEDS FROM PEA CROPS IN THE WESTERN AREAS OF THE COUNTRY. (RUM)
O Segarceanu N Sarpe S Mate I Vladutu N Bratu N Gribincea
Probl Agr 20(11):37-48 REF
1968 21 R862
Chemical control (weeds), Crop yields, Herbicides, Peas, Zonal soils. English, Russian and French summaries.

On, prometrin, camparol, atrazine, phenoxilene plus, 2,4-D

9674-69
THE BIOLOGY AND CONTROL OF THE RICE FIELD MOLE RAT OF CEYLON, GUNOMYS GRACILIS. (0)
H E Fernando N Kawamoto N Perea
China Plant Protect Bull 15(2):32-37
Apr 1967 464.9 C47
Biology, Chemical control (pests), Habitats, Phosphine, Rats.

9675-69
MODIFICATION OF PFEIFER'S BIRD-CONTROL APPARATUS.
R C Rosenau R V Worstell
Agron J 61(2,MAR-APR):327-328
Apr 1969 4 AM34P
Bird control, Dairy equipment, Electric shock, Electrical engineering, Grain.

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9676-69
SHEARING BY DRUG.
Anonymus
Sci News Lett 94(21):520
23 Nov 1968 470 SCI24
Agricultural economics, Alkylation, Cyclophosphamide, Deoxyribonucleic acid, Drug therapy, Drugs, Livestock, Protein synthesis, Sheep shearing, Wool.

9677-69
NOTICE OF FILING OF PETITION FOR FOOD ADDITIVE METOSERPATE HYDROCHLORIDE.
R E Duggan
Fed Regist 34(44):4898
06 Mar 1969 L1.451
Chickens, Food additives, Metoserpate hydrochloride, Slaughtering, Water.

9678-69
RESPONSE ON LACTATING COW TO CORN SILAGE AND CONCENTRATES OF THREE NITROGEN LEVELS WITH AND WITHOUT UREA.
F N Knott
Diss Abstr Sect B 29(3):823B
Sep 1968 Z5055.U49D53
Animal physiology, Cattle, Corn, Lactation, Nitrogen, Proteins, Silage, Urea.

9679-69
KLOT STAINLESS. DRUGS FOR VETERINARY USE, DRUG EFFICACY STUDY IMPLEMENTATION.
H L Ley
Fed Regist 34(52):5342-5343
18 Mar 1969 L1.451
Butyl alcohol, n-, Drug therapy, Drugs, Serum, Veterinary medicine.

9680-69
ATARAXOID TABLETS. DRUGS FOR VETERINARY USE; DRUG EFFICACY STUDY IMPLEMENTATION.
H L Ley
Fed Regist 34(54):5448
20 Mar 1969 L1.451
Drug therapy, Drugs, Hydroxyzine, Prednisolone, Veterinary medicine.

9681-69
DIIODOHYDROXYQUIN. DRUGS FOR VETERINARY USE; DRUG EFFICACY STUDY IMPLEMENTATION.
H L Ley
Fed Regist 34(54):5449
20 Mar 1969 L1.451
Diiodohydroxyquin, Drug therapy, Drugs, Scalp, Seborrhea.

9682-69
A NOTE ON THE DAILY URINARY EXCRETION OF ESTRADIOL-17BETA AND ESTRONE BY THE HEN.
R S Mathur R H Common
Poultry Sci 48(1):100-104 REF
Jan 1969 47.8 AM33P
Animal physiology, Chickens, Estradiol, Estrone, Excretion, Urine

9683-69
TURKEY LIPID CHARACTERISTICS: INFLUENCE OF SEX, AGE AND ESTRADIOL-17 BETA-MONOPALMITATE.
W E Osborn R E Moreng T E Hartung
Poultry Sci 48(1):274-283 REF
Jan 1969 47.8 AM33P
Aging, Animal histology, Animal physiology, Estradiol, Fatty acids, Lipids, Sex, Turkeys.

9684-69
WHITE SPINE IN DOMESTIC ZEBU, THE CATTLE OF AZERBAIJAN. (RUS)
Z K Verdiyev
Genetika 4(9):165-168
1968 QH431.A1G4
Animal adaptation, Animal breeding, Animal genetics, Animal physiology, Cattle breeds, Livestock, Resistance, Zebu cattle.

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9685-69
FURTHER STUDIES ON LEUCOCYTOZOON CAULLERYI IN DOMESTIC FOWLS IN THE PHILIPPINES.
Avian Dis 13(2):280-287
May 1969 41.8 AV5
Chickens, Leucocytozoon caulleryi, Morphology, Poultry diseases.

9686-69
EFFECT OF SUCCINYLCHOLINE CHLORIDE ON THE CARDIAC FUNCTION OF THE HORSE. (JA)
A Amada S Yoshida T Senta T Uchino
Exp Rep Equine Health Lab (4):88-106 REF
1967 SF321.N5
Animal physiology, Dosage, Electrocardiograms, Heart, Horses, Succinylcholine chloride. English summary.

9687-69
PROSTAGLANDINS: ENZYMATIC ANALYSIS.
E Anggard F M Matschinsky B Samulesson
Science 163(3866):479-480
31 Jan 1969 470 SCI2
Animal physiology, Biological assay, Dehydrogenases, Enzymes, Lungs, Prostaglandins, Swine.

9688-69
CORONAVIRUSES.
Anonymous
Nature 220(5168):650
16 Nov 1968 472 N21
Coronaviruses, Electron microscopy, Infectious bronchitis, Myxoviruses, Virology, Virus diseases (animals).

9689-69
THE EGG-BIT TECHNIQUE FOR MEASURING NEWCASTLE DISEASE VIRUS AND ITS NEUTRALIZING ANTIBODIES.
C W Beard
Avian Dis 13(2):309-320 REF
May 1969 41.8 AV5
Antibodies, Eggs, Newcastle disease virus, Particle size determination, Virus-neutralization tests.

9690-69
A BIOLOGICAL CONTROL FOR ECHINOCOCCUS. (IT)
E Biocca O Massi
Parassitologia 10(1):61-73 REF
Jul 1968 436.8 P212
Animal diseases, Biological control (pests), Echinococcosis, Echinococcus granulosus, Swine. English summary.

9691-69
STUDIES ON THE ROLE OF MAMMALS IN THE NATURAL HISTORY OF WESTERN ENCEPHALITIS IN HALE COUNTY TEXAS.
J H Bowers R O Hayes T B Hughes
J Med Entomol 6(2):175-178 REF
May 1969 421 J828
Animal vectors, Epizootic diseases, Mammals, Rabbits, Western equine encephalomyelitis.

9692-69
DUCK PLAGUE VIRUS DISTRIBUTION IN EMBRYONATING CHICKEN AND DUCK EGGS.
W K Butterfield F A Ata A H Dardiri
Avian Dis 13(1):198-202
Feb 1969 41.8 AV5
Chick embryos, Duck plague, Ducks, Eggs, Mortality, Poultry diseases, Virus diseases (animals).

9693-69
TREATMENT OF INFECTIOUS CANINE HEPATITIS WITH A MONOAMINE OXIDASE INHIBITING DRUG.
H Cifuentes-Bernal A Albornoz-Plata E Nunez-Olarte S Triana-Aguilar B Buitrago
Toxicol Appl Pharmacol 12(3):508-517 REF
May 1968 391.8 T662
Canine distemper virus, Dogs, Dosage, Drug therapy, Immunization, Infectious canine hepatitis, Inhibitors, Monoamine oxidase, Nialamide, Virus diseases (animals).

9694-69
HAZARD OF THE HIGH COUNTRY.
Colo Farm Home Res 19(3,APR-JUN):10-11
1969 100 C712CO
Brisket disease, Cattle, Electron microscopy, Heart failure, Livestock diseases, Oxygen.

9695-69
INFLUENCE OF HOST GENOTYPE ON MORTALITY FROM LYMPHOID LEUKOSIS AND MAREK'S DISEASE AFTER ARTIFICIAL AND NATURAL EXPOSURE.
L B Crittenden B R Burmester
Poultry Sci 48(1):196-204 REF
Jan 1969 47.8 AM33P
Animal genetics, Avian lymphomatosis, Chickens, Immunity, Leukosis, Poultry diseases, Virology, Virus diseases (animals).

9696-69
AVIAN REOVIRUSES II. PHYSICOCHEMICAL CHARACTERIZATION AND CLASSIFICATION.
D R Deshmukh B S Pomeroy
Avian Dis 13(2):243-251 REF
May 1969 41.8 AV5
Avian diseases, Biophysics, Chemical analysis, Classification, Reoviruses.

9697-69
AVIAN REOVIRUSES. I. ISOLATION AND SEROLOGICAL CHARACTERIZATION.
D R Deshmukh B S Pomeroy
Avian Dis 13(2):239-243
May 1969 41.8 AV5
Avian diseases, Immunodiagnosis, Reoviruses, Serological tests.

9698-69
A MEDIUM FOR ISOLATION AND TENTATIVE IDENTIFICATION OF FECAL STREPTOCOCCI, AND THEIR ROLE AS AVIAN PATHOGENS.
C H Domermuth W B Gross
Avian Dis 13(2):394-399
May 1969 41.8 AV5
Avian diseases, Culture media, Feces, Streptococcus.

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AN ISOLATION CABINET SYSTEM FOR AVIAN DISEASE RESEARCH.
L N Drury C W Beard S R Hopkins
Avian Dis 13(2):400-412
May 1969 41.8 AV5
Avian diseases, Chickens, Germ-free life, Laboratory equipment.

9700-69
STRUCTURAL RELATIONSHIPS BETWEEN THE RNA OF MAMMARY TUMOR VIRUS AND THOSE OF OTHER RNA TUMOR VIRUSES.
P H Duesberg R D Cardiff
Virology 36(4):696-700 REF
Dec 1968 448.8 V81
Electrophoresis, Leukosarcomatosis, Mammary glands, Neoplasms, Proteins, Ribonucleic acid, RNA viruses, Virology, Virus diseases (animals).

9701-69
PROTEIN IN THE BLOOD SERUM OF CHICKS EXPERIMENTALLY INFECTED WITH SPIROCHAETOSIS. (BU)
I Dumanov T Lozeva
Vet Med Nauk 5(3):41-49 REF
1968 41.8 V6468
Blood serum, Chicks, Hematologic diseases, Proteins, Spirochetosis. English and Russian summaries.

9702-69
RELATIONSHIP OF PARTICLE SIZE TO COCCIDIOSTATIC EFFICACY OF BUQUINOLATE.
M K Eckman R E Kohls
Avian Dis 13(2):297-308
May 1969 41.8 AV5
Buquinolate, Chickens, Coccidiosis, Coccidiostats, Drug therapy, Eimeria acervulina, Eimeria tenella, Particle size determination.

9703-69
CONGO RED AND TRYPAN BLUE AS STAINS FOR PLAQUE ASSAY OF NEW CASTLE DISEASE VIRUS.
J Estupinan R P Hanson
Avian Dis 13(2):330-339 REF
May 1969 41.8 AV5
Azo dyes, Biological assay, Newcastle disease virus, Plaque, Staining, Trypan blue.

9704-69
PRODUCTION OF STREPTOCOCCAL M-TYPING ANTISERA. I. ANTIGENIC RESPONSE IN DIFFERENT BREEDS OF RABBITS.
R R Facklam M D Moody
Appl Microbiol 16(12):1822-1825
Dec 1968 448.3 AP5
Animal diseases, Antigens, Antiserum, Immunization, Rabbits, Streptococcus.

9705-69
HISTOPATHOLOGIC CHANGES INDUCED WITH DUCK HEPATITIS VIRUS IN THE DEVELOPING CHICKEN EMBRYO.
J E Fitzgerald L E Hanson J Simon
Avian Dis 13(1):147-157 REF
Feb 1969 41.8 AV5
Animal histology, Animal physiology, Chick embryos, Microscopy, Poultry diseases, Virus diseases (animals), Virus hepatitis.

9706-69
SYNTHESIS OF URIDILIC NUCLEOTIDES AND TMP IN BONE MARROW OF CHICKS INFECTED WITH THE AVIAN MYELOBLASTOSIS VIRUS.
G A Galegov N F Pravdina V A Parnes D K Karapetyan
Biochemistry 33(2,PT 2,MAR-APR):282-285 REF
1968 385 B523AE
Avian myeloblastosis virus, Bone marrow, Chicks, Enzymes, Ethyl-2-(hydroxymethyl)-1,3-propanediol, 2-, Kinases, Nucleotides, Synthesis, Tables (data), Thymidine, Uridine, Virus diseases (animals). Translated from russian

9707-69
AN ATTEMPT TO ISOLATE HIGH POLYMERIZED DEOXYRIBONUCLEIC ACID FROM BRUCELLA ABORTUS.
S P E Geyser M J Pitout
S Afr Chem Inst J 21(2):164-173 REF
Oct 1968 385 SO84
Brucella abortus, Cattle, Culture media, Deoxyribonucleic acid, Spectrochemistry, Tables (data). Afrikaans summary.

9708-69
VIRUS-LIKE PARTICLES OBSERVED IN PLASMA AND WHITE BLOOD CELLS FROM BIRDS WITH MAREK'S DISEASE.
R Glaser C N Burke T N Frederickson R E Luginbuhl
Avian Dis 13(2):261-267
May 1969 41.8 AV5
Avian lymphomatosis, Biological assay, Blood plasma, Chickens, Cytology, Electron microscopy, Virus diseases (animals).

9709-69
AGGLUTINATING ANTIGEN FROM AN ORNITHOSIS AGENT. II. MODIFICATION OF ANTIGEN PREPARATION AND TEST PROCEDURE.
J E Grimes R W Moore L C Grumbles
Avian Dis 13(2):345-355 REF
May 1969 41.8 AV5
Agglutination, Antigens, Methodology, Ornithosis, Serological tests, Turkeys.

9710-69
BOVINE MYCOTIC PLACENTITIS IN NEW YORK STATE.
R B Hillman
Cornell Vet 59(2):269-288 REF
Apr 1969 41.8 C81
Abortion, Aspergillus fumigatus, Cattle, Epidemiology, Livestock diseases, Mycosis.

9711-69
COLIC OF THE HORSE AND AUTONOMIC NERVOUS DISTURBANCES. PATHOMORPHOLOGICAL INVESTIGATIONS.
T Hirose H Satoh
Exp Rep Equine Health Lab (4):151-213 REF
1967 SF321.N5
Colic, Diagnosis, Horses, Livestock diseases, Morphology, Nerves, Research. Japanese translation.

9712-69
STUDIES ON A FILTRABLE AGENT ASSOCIATED WITH INFECTIOUS ENTERITIS (BLUECOMB) OF TURKEYS.
M S Hofstad N Adams M L Frey
Avian Dis 13(2):386-393
May 1969 41.8 AV5
Biochemistry, Bluecomb, Immunodiagnosis, Turkeys.

9713-69
SEROLOGIC AND IMMUNOLOGIC PROPERTIES OF A RECENT ISOLATE OF INFECTIOUS BRONCHITIS VIRUS.
S R Hopkins
Avian Dis 13(2):356-362 REF
May 1969 41.8 AV5
Chickens, Immunochemistry, Infectious bronchitis virus, Serological tests.

9714-69
ANTI-MALARIAL EFFECT OF INTERFERON INDUCERS AT DIFFERENT STAGES OF DEVELOPMENT OF PLASMODIUM BERGHEI IN THE MOUSE.
R I Jahiel B S Nussenzweig J Vanderberg J Vilcek
Nature 220(5168):710-711
16 Nov 1968 472 N21
Injections, Interferon, Laboratory animals, Malaria control, Mice, Newcastle disease virus, Parasitism, Plasmodium berghei, Statolon, Virus diseases (animals).

9715-69
VIRUS INDUCED CATARACTS.
R Jarman C Hanna C E Duffy
Ark Acad Sci Proc 21:21-25 REF
1967 500 AR42
Cataracts, Eyes, Human diseases, Laboratory animals, Rats, Ribonucleic acid, Saint louis encephalitis, Virus diseases (animals).

9716-69
KALAFUNGIN, A NEW ANTIBIOTIC PRODUCED BY STREPTOMYCES TANASHIENSIS STRAIN KALA.
L E Johnson A Dietz
Appl Microbiol.16(12):1815-1821 REF
Dec 1968 448.3 AP5
Animal diseases, Antibiotics, Bacteria, Culture media, Fungus diseases (animals), Kalafungin, Protozoa, Soil microorganisms, Streptomyces tanashiensis kala.

9717-69
AN ELECTRON MICROSCOPIC COMPARISON OF THREE STRAINS OF BOVINE PARAINFLUENZA-3 VIRUS.
D E Kahn J Kita J H Gillespie
Cornell Vet 59(3):431-438
Jul 1969 41.8 C81
Cattle, Electron microscopy, Parainfluenza-3, Virus mutation.

9718-69
TETRACYCLINE HYDROCHLORIDE POWDER WITH BENZOCAINE FOR TOPICAL USE. DRUGS FOR VETERINARY USE; DRUG EFFICACY STUDY IMPLEMENTATION.
J K Kirk
Fed Regist 34(38):2623
26 Feb 1969 L1.451
Cattle, Drug therapy, Ethyl aminobenzoate, Infectious keratitis, Livestock diseases, Tetracycline hydrochloride, Veterinary medicine.

9719-69
ACETAZOLAMIDE. DRUGS FOR VETERINARY USE; DRUG EFFICACY STUDY IMPLEMENTATION.
J K Kirk
Fed Regist 34(26):1839-1840
07 Feb 1969 L1.451
Acetazolamide, Dogs, Dosage, Drugs, Heart, Regulation (drugs), Veterinary medicine.

9720-69
THE PROPAGATION AND CYTOMORPHOLOGICAL EFFECTS OF BOVINE PARAINFLUENZA TYPE 3 VIRUS IN ORGAN CULTURES OF BOVINE FETAL TISSUES.
J Kita R M Kenney J H Gillespie
Cornell Vet 59(3):355-369 REF
Jul 1969 41.8 C81
Animal morphology, Cattle, Parainfluenza-3, Pathology, Tissue culture.

9721-69
OCULAR SENSITIVITY OF DOGS TO TOPICAL TETRACAINE HCL.
S A Koch L F Rubin
Amer Vet Med Ass J 154(1):15-16
01 Jan 1969 41.8 AM3
Allergies, Antihistaminics, Chemosis, Diagnosis, Dogs, Drug therapy, Eyes, Tetracaine hydrochloride.

9722-69
EFFECT ON MORTALITY OF SEMIPURIFIED DIETS VERSUS NATURAL FEEDSTUFFS FED TO CHICKENS INFECTED WITH EIMERIA TENELLA.
A J Koltveit
Avian Dis 13(2):288-296 REF
May 1969 41.8 AV5
Chickens, Coccidiosis, Diet, Eimeria tenella, Mortality.

9723-69
CYTOPLASMIC INCLUSIONS OBSERVED BY ELECTRON MICROSCOPY LATE IN INFLUENZA VIRUS INFECTION OF CHICKEN EMBRYO FIBROBLASTS.
J V Kopp J E Kempf A V Kroeger
Virology 36(4):681-683 REF
Dec 1968 448.8 V81
Cells, Chickens, Cytoplasm, Electron microscopes, Embryology, Inclusion bodies, Influenza viruses, Tissues, Virus diseases (animals).

9724-69
A STUDY OF THE IMMUNOLOGICAL RELATIONSHIP OF ANAPLASMA MARGINALE AND ANAPLASMA CENTRALE.
K L Kuttler
Res Vet Sci 8(4):467-471, REF
Oct 1967 41.8 R312
Anaplasma centrale, Anaplasma marginale, Anaplasmosis, Calves, Cattle, Livestock diseases.

9725-69
A REPORT ON THE USE OF A SERUM PLATE ANTIGEN FOR THE DETECTION OF ANTIBODIES TO MYCOPLASMA GALLISEPTICUM.
K F Lawson R T Hertler
Poultry Sci 48(1):295-300
Jan 1969 47.8 AM33P
Antibodies, Antigens, Chickens, Hemagglutination-inhibition test, Immunology, Mycoplasma gallisepticum, Poultry diseases.

9726-69
HYDROCHLOROTHIAZIDE. DRUGS FOR VETERINARY USE; DRUG EFFICACY STUDY IMPLEMENTATION.
H L Ley
Fed Regist 34(36):2516
21 Feb 1969 L1.451
Cattle, Dosage, Drug therapy, Edema, Hydrochlorothiazide, Legislation, Livestock diseases, Regulation (drugs), Research, Udders, Veterinary medicine.

9727-69
ATTEMPTED EXPERIMENTAL INDUCTION OF AMYLOIDOSIS IN CHICKENS.
D W MacDonald H C Carlson
Poultry Sci 48(1):71-76 REF
Jan 1969 47.8 AM33P
Amyloidosis, Casein, Chickens, Culture media, Immunity, Poultry diseases, Staphylococcus aureus.

9728-69
EFFECT OF TRITON WR-1339 ON ROUS VIRUS-INDUCED TUMORS IN CHICKENS.
V W Mayer F M Hetrick
Cornell Vet 59(3):405-417 REF
Jul 1969 41.8 C81
Chickens, Dosage, Drugs, Neoplasms, Rous sarcoma virus.

9729-69
A FILTERABLE, PROLIFERATING FACTOR SIMULATING AUTOIMMUNITY IN MALARIOUS AND NONMALARIOUS DUCKLINGS.
R B McGhee W E Loftis
Exp Parasitol 22(3):299-308 REF
Jun 1968 436.8 EX7
Anemia, Blood plasma, Ducklings, Immunity, Malaria, Parasitology, Plasmodium lophurae, Virus diseases (animals).

9730-69
ARBOVIRUS FOCUS IN THE EAST KOOTENAYS. (ABSTRACT).
D M McLean
Can J Public Health 60(1):37
Jan 1969 449.8 P964
Antigens, Arboviruses, Dermacentor andersoni, Epidemiology, Forest insects, Hemagglutination-inhibition test, Ixodides, Mammals, Powassan virus, Rodents, Saint louis encephalitis, Serum, Virus diseases (animals).

9731-69
METABOLISM OF LINEAR ALKYLATE SULFONATE AND ALKYL BENZENE SULFONATE IN ALBINO RATS.
W R Michael
Toxicol Appl Pharmacol 12(3):473-485 REF
May 1968 391.8 T662
Animal physiology, Biochemistry, Dosage, Feces, Gastrointestinal system, Metabolism, Metabolites, Rats, Sulfonic acids, Surface-active agents, Urine.

9732-69
PRELIMINARY OBSERVATIONS ON POSSIBLE SYNERGISM BETWEEN INFECTIOUS LARYNGOTRACHEITIS VIRUS AND HEMOPHILUS GALLINARUM.
Y S Mohamed P D Moorhead E H Bohl
Avian Dis 13(1):158-162
Feb 1969 41.8 AV5
Coryza, Haemophilus gallinarum, Infectious diseases, Laryngotracheitis, Poultry, Poultry diseases, Respiratory diseases, Tissue culture.

9733-69
THE EFFECTS OF HYDROXYUREA ON CULTURED SOMATIC CELLS OF THE CHINESE HAMSTER, CRICETULUS GRISEUS.
C Neill W C Guest
Ark Acad Sci Proc 21:59-61
1967 500 AR42
Animal physiology, Biochemistry, Cells, Deoxyribonucleic acid, Hamsters, Hydroxyurea, Mitosis, Ribonucleic acid, Synthesis, Tables (data).

9734-69
MAMMARY DEVELOPMENT IN ALLOXAN DIABETIC RABBITS INJECTED WITH OESTRONE AND PROGESTERONE.
A Norgren
Lund Univ Acta Univ Lundensis Sect I I Med Math Sci Ker Nat (37):15P
1967 502 L97A
Alloxan, Animal physiology, Diabetes, Hormones, Injections, Mammary glands, Oestrone, Progesterone, Rabbits.

9735-69
THE FOOT AND MOUTH EPIDEMIC.
J Ockleshaw J M Hilton
Chartered Surv 101(1):42-43
Jul 1968 325.8 C38
Epidemiology, Foot-and-mouth disease, Livestock diseases. This article is the personal consideration of the author.

9736-69
BLOOD CONCENTRATION OF CHLORAMPHENICOL IN HORSES AFTER INTRAMUSCULAR OR ORAL ADMINISTRATION. (JA)
S Oh-ishi
Exp Rep Equine Health Lab (4):83-87
1967 SF321.N5
Animal physiology, Blood, Chloramphenicol, Horses, Hyaluronidase, Muscles. English and French summaries.

9737-69
TISSUE DISTRIBUTION OF SULFADIMETHOXINE AND SULFAMONOMETHOXINE IN HORSES AFTER INTRAVENOUS INJECTION. (JA)
S Oh-ishi
Exp Rep Equine Health Lab (4):79-82
1967 SF321.N5
Blood vessels, Horses, Injections, Physiology, Sulfadimethoxine, Sulfameter, Tissues. English and French summaries.

9738-69
SEVERAL CONTROL MEASURES USED IN AN EPIZOOTIC OF TRANSMISSIBLE GASTROENTERITIS.
L D Olson
Cornell Vet 59(3):426-430
Jul 1969 41.8 C81
Animal quarantine, Epizootic diseases, Gastroenteritis, Immunization, Swine.

9739-69
COMPARISON OF COMMERCIAL AND AUTOGENOUS BACTERINS FOR CONTROL OF THE CRANIAL FORM OF FOWL CHOLERA IN TURKEYS.
L D Olson E L McCune R E Bond
Avian Dis 13(2):252-260
May 1969 41.8 AV5
Bacterins, Fowl cholera, Poultry diseases, Serological tests, Turkeys.

9740-69
OXIDATION OF METHYL- AND DIMETHYLCARBAMATE INSECTICIDE CHEMICALS BY MICROSOMAL ENZYMES AND ANTICHOLINESTERASE ACTIVITY OF METABOLITES.
E S Oonnithan J E Casida
J Agr Food Chem 16(1,JAN-FEB):28-44 REF
1968 381 J8223
Animal physiology, Carbamates, Cholinesterases, Enzymes, Insecticides, Liver, Metabolites, Microsomes, Oxidation, Rats.

9741-69
POLYMETHACRYLIC ACID: EFFECTS ON LYMPHOCYTE OUTPUT OF THE THORACIC DUCT IN RATS.
S Ormai E De Clereq
Science 163(3866):471-472
31 Jan 1969 470 SCI2
Animal physiology, Blood, Lymphocytes, Methacrylic acid, Polymers, Rats, Thorax.

9742-69
TULAREMIA IN THE WILDLIFE OF ARKANSAS.
L J Paulissen R R Corey D Swartz
Ark Acad Sci Proc 21:39-44 REF
1967 500 AR42
Agglutination test, Animal vectors, Bacterial diseases (animals), Human diseases, Pasteurella tularensis, Tularemia, Wildlife diseases.

9743-69
ATYPICAL FOCI OF HISTOMONIASIS LESIONS IN A STUDY OF DIRECT ORAL TRANSMISSION.
D L Peardon J E Ware
Avian Dis 13(2):340-344 REF
May 1969 41.8 AV5
Animal disease transmission, Animal physiology, Blackhead, Turkeys.

9744-69
B PARATHIPHOSIS OF YOUNG PHEASANTS. (RUM)
L Petricia M Caroiu P Onica I Contiu P Nistor
Bucharest Inst Agron Timesoara Lucari Stiint 6:329-338 REF
1963 106.4 T48
Epizootic diseases, Infectious diseases, Mortality, Pheasants, Poultry diseases, Salmonella typhimurium, Salmonellosis. Russian and English summary.

9745-69
CHARACTERIZATION OF FIVE ISOLATES OF MAREK'S DISEASE.
H G Purchase P M Biggs
Res Vet Sci 8(4):440-449 REF
Oct 1967 41.8 R312
Avian lymphomatosis, Chickens, Poultry diseases, Virus diseases (animals).

9746-69
ABSORPTION AND METABOLISM OF ANTIMYCIN ADMINISTERED WITH A RAT DIET.
P O Ritter F M Strong
J Agr Food Chem 16(1,JAN-FEB):6-12 REF
1968 381 J8223
Absorption, Animal physiology, Antibiotics, Citrinin, Diet, Hydrogen, Isotopes, Metabolism, Radioactivity, Rats.

9747-69
THE ISOLATION OF BACTERIUM ANITRATUM (ACINETOBACTER ANITRATUS) AND MIMA POLYMORPHA

(ACINETOBACTER IWOFFI) FROM ANIMALS IN UGANDA.
H M Ross
Vet Rec 83(19):483-485
09 Nov 1968 41.8 V641
Achromobacter, Animals, Chickens, Microorganisms.

9748-69
STUDIES ON COLIBACILLOSIS OF CALVES. VII. ADVISABILITY OF RE-VACCINATION. (FR)
F Schoenaers A Kaeckenbeeck
Ann Med Vet 112(8):649-657 REF
Dec 1968 41.8 AN78
Antibodies, Calves, Colibacillosis, Colostrum, Immunization, Livestock diseases, Pregnancy. English summary.

9749-69
ROLE OF INTERFERON IN EXPERIMENTAL MOUSE MALARIA.
W W Schultz K Y Huang F B Gordon
Nature 220(5168):709-710 REF
16 Nov 1968 472 N21
Biochemistry, Injections, Interferon, Laboratory animals, Malaria, Mice, Newcastle disease virus, Parasitism, Plasmodium berghei, Virus diseases (animals).

9750-69
A PLAQUE SYSTEM FOR STUDY OF INFECTIOUS LARYNGOTRACHEITIS VIRUS IN ADULT CHICKEN KIDNEY CULTURES.
J M Sharma L G Raggi
Avian Dis 13(2):268-279 REF
May 1969 41.8 AV5
Chickens, Infectious laryngotracheitis virus, Plaque, Serodiagnosis, Tissue culture.

9751-69
ELECTRON MICROSCOPY OF RICE TRANSITORY YELLOWING VIRUS.
E Shikata M J Chen
J Virology 3(2):261-264 REF
Feb 1969 QR360.J6
Electron microscopy, Plant physiology, Rice, Virus diseases (plants), Yellows.

9752-69
CARDIOVASUCLAR STUDIES ON COPPER DEFICIENT SWINE. XII. PARTIAL PURIFICATION OF A SOLUBLE PROTEIN RESEMBLING ELASTIN.
D W Smith N Weissman W H Carnes
Biochem Biophys Res Commun 31(3):309-315 REF
10 May 1968 442.8 B5236
Amino acids, Animal nutrition, Circulatory system, Copper, Deficiency diseases, Elastin, Electrophoresis, Proteins, Purification, Swine, Temperature.

9753-69
ELECTRO-CARDIOGRAM IN A CARDIAC DISORDER IN CATTLE.
T P Suresh T R S Rangachar V R Hegde
Mysore J Agr Sci 2(1):17-22
1968 S19.M9
Cattle, Electrocardiograms, Heart diseases, Laboratory animals, Livestock diseases.

9754-69
THE RATE OF BREAKDOWN OF METHYL METHANESULPHONATE, DIMETHYL SULPHATE AND N-METHYL-N-NITROSOUREA IN THE RAT.
P F Swann
Biochem J 110(1):49-52 REF
Nov 1968 382 B52
Biochemistry, Blood, Chemical reactions, Decomposition, Dimethyl sulfate, Injections, Methyl methanesulfonate, Methyl-1-nitrosourea, 1-, Rats.

9755-69
FLUORIDE TOXICITY IN THE CHICK.
C W Weber A R Doberenz B L Reid
Poultry Sci 48(1):230-235 REF
Jan 1969 47.8 AM33P
Animal nutrition, Chicks, Deficiency diseases, Fluorides, Toxins.

9756-69
IN VIVO SUSCEPTIBILITY OF SALMONELLA PANAMA TO POLYMYXIN B SULFATE AND COMBISTREP.
B J Williams O E Bentley
Avian Dis 13(2):412-414
May 1969 41.8 AV5
Antibiotics, Biological assay, Polymyxin b sulfate, Salmonella panama, Turkeys.

9757-69
MUTATIONS OF THE WESTERN EQUINE ENCEPHALOMYELITIS VIRUS (WEE) INDUCED BY CHEMICAL MUTAGENS. (RUS)
G D Zasukhina W P Marinina
Genetika (5):166-168
1967 QH431.A1G4
Adenine nucleotides, Formaldehyde, Mutagens, Mutations, Nitrosomethylurea, N-, Virus diseases (animals), Western equine encephalomyelitis virus. English summary

ARTHROPODS

9758-69
A 10-YEAR SURVEY OF TRINIDADIAN ARTHROPODS FOR NATURAL VIRUS INFECTIONS (1953--1963).
T H G Aitken L Spence A H Jonkers W G Downs
J Med Entomol 6(2):207-215
May 1969 421 J828
Acarina, Arboviruses, Culicidae, Diptera, Insect vectors, Siphonaptera, Surveys, Virus diseases (animals).

9759-69
THE EFFECT OF DDT ON REPRODUCTION IN MICE.
M S Cannon L C Holcomb
Ohio J Sci 68(1):19-24
Jan 1968 410 OH3
Animal physiology, Biological assay, Chlorinated hydrocarbons, DDT, Insecticides, Mice, Reproduction, Toxicology.

9760-69
TICKS (IXODOIDEA) OF DOMESTICS ANIMALS IN IRAQ. PART 7. SEASONAL INCIDENCE ON CATTLE, SHEEP AND GOATS IN THE TIGRIS-EUPHRATES VALLEY PLAIN.
J Robson J M Robb N J Hawa T Al-Wahayyib
J Med Entomol 6(2):127-130 MAP
May 1969 421 J828
Insect identification, Ixodoidea, Livestock.

Based on collections totalling 78,247 ticks from 4,349 animals, cattle, sheep and goats carried more Hyalomma and Boophilus in summer and autumn than in either spring or winter. Rhipicephalus were more prevalent in spring and summer as compared to autumn and winter. The only purely seasonal tick species on these animals was H. detritum, which occurred in summer only.

9761-69
STUDIES ON THE SAFETY OF PLASTIC DOG COLLARS CONTAINING DICHLORVOS.
A I T Walker D E Stevenson
Vet Rec 83(21):538-541
23 Nov 1968 41.8 V641
Blood tests, Cholinesterases, Dichlorvos, Dogs, Insecticides, Organophosphorus compounds.

PARASITES

9762-69
EVALUATION OF PARBENDAZOLE, A NEW BROAD SPECTRUM ANTHELMINTIC FOR SWINE AND SHEEP.
E G Batte D J Moncol
Vet Med/small Anim Clin 63(10):984-985
Oct 1968 41.8 M69
Anthelmintics, Dosage, Drenches, Drug therapy, Feed additives, Helminthiasis, Parbendazole, Sheep, Swine.

9763-69
FINE STRUCTURAL LOCALIZATION OF ACID PHOSPHATASE AND ARYL SULFATASE ACTIVITIES IN THE INTERMEDIATE LAYER OF HYMENOLEPIS DIMINUTA CYSTICERCOIOS.
B J Bogitsh
Amer Microscop Soc Trans 88(3):411-419
Jul 1969 440.9 AM33
Acid phosphatase, Arylsulfatase, Biochemistry, Cytology, Hymenolepis diminuta.

9764-69
A NEW GENUS AND SPECIES, PSILOTORNUS AUDACIRRUS (TREMATODA: DIGENEA: PSILOSTOMATIDAE), FROM THE WILD TURKEY IN ALABAMA.
E E Byrd A K Prestwood
Amer Microscop Soc Trans 88(3):366-369
Jul 1969 440.9 AM33
Taxonomy, Trematoda, Turkeys.

9765-69
CHANGES IN SEX RATIO IN HAEMONCHUS CONTORTUS CAYUGENSIS.
H D Crofton J H Whitlock
Cornell Vet 59(3):388-392
Jul 1969 41.8 C81
Haemonchus contortus, Population, Sex ratios, Surveys.

9766-69
THE EFFECT OF TIME AND SEASON ON THE CONSTANCY OF MORPHOLOGY IN HAEMONCHUS CONTORTUS CAYUGENSIS INFECTIONS.
H D Crofton J H Whitlock
Cornell Vet 59(3):393-397
Jul 1969 41.8 C81
Haemonchus contortus, Morphology, Nematodes.

9767-69
PELECITUS CEYLONENSIS N.SP., FROM THE CHICK AND ASH-DOVE EXPERIMENTALLY INFECTED WITH LARVAE FROM MANSONIA CRASSIPES, AND FROM NATURALLY-INFECTED CROWS IN CEYLON.
A S Dissanaike
Ceylon J Sci Biol Sci 7(1/2):96-104 REF
Oct 1967 475 C33
Birds, Chicks, Crows, Insect physiology, Insect vectors, Larvae, Mansonia crassipes, Pelecitus ceylonensis, Pigeons.

9768-69
A COMPARATIVE STUDY OF THE EFFECTIVENESS OF CHEMICAL OVICIDES ON THE SURVIVAL OF THE SOIL-TRANSMITTED INTESTINAL NEMATODES.
A M Mango
Diss Abstr Sect B 29(3):1078B
Sep 1968 Z5055.U49D53
Ancylostoma caninum, Ascaris lumbricoides, Biochemistry, Chemical control (nematodes), Hydrogen-ion concentration, Larvae, Livestock, Nematodes, Ovicides, Soils, Strongyloides fulleborni, Temperature, Trichuris vulpis.

9769-69
THE EFFECT OF THE TAPEWORM HYMENOLEPIS NANA ON IMMUNITY TO TUBERCULOSIS IN MICE.
R J Olds
J Hyg 67(2):233-239 REF
Jun 1969 449.8 J82
Hymenolepis nana, Immunity, Mice, Tuberculosis.

9770-69
STUDIES ON TWO FLUKE INFECTIONS OF THE INTESTINAL TRACT IN BUFFALO-CALVES (BELOW TWO YEARS OF AGE) WITH FURTHER OBSERVATIONS ON HISTOPATHOLOGY.
B P Pande B B Bhatia G S Arora

Indian J Vet Sci Anim Husb 38(3):463-470 REF
Sep 1968 41.8 IN22
Buffaloes, Calves, Livestock diseases, Paramphistomum explanatum, Parasitism, Schistosoma spindale, Trematoda.

9771-69
STUDIES ON STEPHANOFILARIASIS IN ORISSA. II. DERMATITIS DUE TO STEPHANOFILARIA ASSAMENSIS PANDE, 1936, IN THE MURRAH BUFFALO (BOS BUBALIS) AND THE BEETAL BUCK (CAPRA HIRCUS) WITH REMARKS ON THE MORPHOLOGY OF THE PARASITE.
B Patnaik S P Roy
Indian J Vet Sci Anim Husb 38(3):455-462 REF
Sep 1968 41.8 IN22
Buffaloes, Dermatitis, Filariasis, Helminths, Livestock diseases, Morphology, Parasitism, Sheep, Stephanofilaria assamensis.

9772-69
STUDIES ON GEOGRAPHICAL DISTRIBUTION AND ECOLOGY OF LYMNAEA AURICULARIA VAR. RUFESCENS, THE INTERMEDIATE HOST OF FASCIOLA GIGANTICA IN ORISSA.
M M Patnaik S K Ray
Indian J Vet Sci Anim Husb 38(3):484-506 MAP REF
Sep 1968 41.8 IN22
Animal vectors, Cattle, Distribution, Ecology, Fasciola, Fascioliasis, Host specificity, Livestock diseases, Snails.

9773-69
STUDIES ON EIGHT MORPHOLOGICAL VARIANT FEMALES OF HAEMONCHUS SIMILIS TRAVASSOS, 1914 (NEMATODA, TRICHOSTRONGYLIDAE) FROM INDIAN CATTLE (BOS INDICUS).
S R Rao M A Ghafoor
Indian J Vet Sci Anim Husb 38(3):471-477 REF
Sep 1968 41.8 IN22
Cattle, Haemonchus similis, Morphology, Nematodes, Trichostrongylidae.

9774-69
GNATHOSTOMULIDA FROM AMERICA.
R J Riedl
Science 163(3866):445-452 REF
31 Jan 1969 470 SCI2
Anatomy, Ecology, Gnathostomulida, Physiology, Taxonomy, Zoogeography.

9775-69
PARBENDAZOLE IN TREATMENT OF INTESTINAL NEMATODES OF DOGS AND MONKEYS.
V J Theodorides M Laderman
Vet Med/small Anim Clin 63(10):985
Oct 1968 41.8 M69
Ancylostoma, Dipylidium, Dogs, Dosage, Drug therapy, Intestines, Monkeys, Nematodes, Oesophagostomum, Parasitism, Parbendazole, Physaloptera, Strongyloides, Taenia, Toxocara, Trichostrongylus, Trichuris, Uncinaria.

9776-69
RESEARCH NOTE--INCIDENCE OF INFECTION BY GASTROTAENIA CYGNI (CESTODA: APORIDEA) OF WATERFOWL IN EASTERN COLORADO.
W B Willers O W Olsen
Avian Dis 13(2):415-416
May 1969 41.8 AV5
Aquatic birds, Cestodiasis.

COMMODITY PROTECTION

STORAGE DISEASES

9777-69
THE INCUBATION PERIOD OF PHYTOPHTHORA CITROPHTHORA IN CITRUS FRUITS STORED AT DIFFERENT TEMPERATURES.
M Schiffman-Nadel E Cohen
Phytopathology 59(2):237-238
Feb 1969 464.8 P56
Brown rot, Citrus, Fruit, Fungus diseases (plants), Incubation, Phytophthora citrophthora, Storage diseases, Temperature.

ARTHROPODS

9778-69
BIONOMICS OF ANDROLAELAPS CASALIS (BERLESE) (ACARINA: LAELAPIDAE) A PREDATOR OF MITE PESTS OF STORED CEREALS.
P S Barker
Can J Zool 46(6):1099-1102
Nov 1968 470 C16D
Acarus siro, Androlaelaps casalis, Biological control (insects), Glycyphagus domesticus, Grain, Insect pests, Mites, Predaceous insects, Stored products, Temperature, Tribolium confusum, Tyrophagus putrescentiae.

9779-69
COCKROACHES (BLATTARIA) AS VECTORS OF FOOD POISONING AND FOOD INFECTION ORGANISMS.
M E Rueger T A Olson
J Med Entomol 6(2):185-189
May 1969 421 J828
Food poisoning, Insect vectors, Periplaneta americana, Salmonella, Shigella, Staphylococcus aureus.

9780-69
RECORDS OF COLEOPTERA ASSOCIATED WITH STORED PRODUCTS IN AUSTRALIA.
R G Winks
Entomol Soc Australia (nsw) J 8(1):110-112
30 Jun 1969 423.92 EN84
Coleoptera, Grain, Stored product insects, Surveys.

MICROBIAL CONTAMINATION

9781-69
SOME THOUGHTS CONCERNING THE SALMONELLA PROBLEM. (GE)
J Bischoff
Arch Lebensmittelhyg 19(4):83
Apr 1968 41.8 L49
Conferences, Eggs, Feed, Fish meal, Flour, Food contamination, Food sanitation, Foreign trade, Import control, Infectious diseases, Poultry products, Salmonella.

9782-69
AFLATOXIN-PRODUCING POTENTIAL OF FUNGI ISOLATED FROM CURED AND AGED MEATS.
L B Bullerman J C Ayres
Appl Microbiol 16(12):1945-1946
Dec 1968 448.3 AP5
Aflatoxin, Aging, Aspergillus flavus, Aspergillus parasiticus, Curing, Food contamination, Fungi, Meat.

9783-69
THE SOURCES AND EXTENT OF SALMONELLA CONTAMINATION IN RENDERING PLANTS.
J Timoney
Vet Rec 83(21):541-543
23 Nov 1968 41.8 V641
Animal diseases, Animal nutrition, Food contamination, Salmonella.

9784-69
ON THE PROBLEM OF CONTAMINATION WITH SALMONELLAE FOODSTUFFS AND FEEDS. (BU)
V Vesselinov
Vet Med Nauk 5(3):111-115
1968 41.8 V6468
Bacteria, Feed, Food contamination, Microbial contamination, Salmonella.

RESIDUES

9785-69
GAS CHROMATOGRAPHIC ANALYSIS OF CIBA C-9491 (O-(2,5-DICHLORO-4-IODOPHENYL)O,O-DIMETHYL PHOSPHOROTHIOATE), ITS OXYGEN ANALOG, AND ITS PHENOLIC HYDROLYSIS PRODUCT IN SWEET CORN AND MILK.
M C Bowman M Beroza
J Agr Food Chem 16(2,MAR-APR):280-283
1968 381 J8223
Chromatography, Corn, Dichloro-4-iodophenyl) O,O-dimethyl phosphorothioate, O-(f, Gases, Hydrolysis, Milk, Oxygen, Pesticide residues, Phenols.

9786-69
NOTICE OF FILING OF PETITION REGARDING PESTICIDE CHEMICALS.
R E Duggan
Fed Regist 34(59,PT 1):5752
27 Mar 1969 L1.451
Agricultural products, Benzene, Chromatography, Fruit, Fungicides, Pesticide analysis, Pesticide residues, Tetrachloroethyl)thio)-4-cyclohexene-1,2-dicarhoximide, cist.

9787-69
NOTICE OF FILING OF PETITION REGARDING PESTICIDE CHEMICALS.
R E Duggan
Fed Regist 34(44):4899
06 Mar 1969 L1.451
Chemicals, Chromatography, Mung beans, Pesticide residues, Pesticides, Plant regulators, Regulation (pesticides), Trifluralin.

9788-69
NOTICE OF FILING OF PETITION REGARDING PESTICIDE CHEMICALS.
R E Duggan
Fed Regist 34(48):5128
12 Mar 1969 L1.451
Agricultural products, Butylphenoxy)cyclohexyl 2-propynyl sulfite, 2-(p-tert-, Chemicals, Pesticide residues, Pesticides, Raw materials, Sulfites, Tolerances, Walnuts.

9789-69
TOLERANCES AND EXEMPTIONS FROM TOLERANCES FOR PESTICIDE CHEMICALS IN OR ON RAW AGRICULTURAL COMMODITIES. NOREA.
R E Duggan
Fed Regist 34(51):5291-5292
15 Mar 1969 L1.451
Agricultural products, Chemicals, Cottonseed, Herbicide residues, Norea, Pesticide residues, Pesticides, Raw materials, Sorghum, Soybeans, Spinach, Sugarcane, Tolerances.

9790-69
TOLERANCES AND EXEMPTIONS FROM TOLERANCES FOR PESTICIDE CHEMICALS IN OR ON RAW AGRICULTURAL COMMODITIES. O,O-DIMETHYL S-(4-OXO-1,2,3-BENZOTRIAZIN-3(4H)-YLMETHYL) PHOSPHORODITHIOATE.
R E Duggan
Fed Regist 34(50):5255
14 Mar 1969 L1.451
Agricultural products, Azinphosmethyl, Chemicals, Organophosphorus compounds, Pesticide

residues, Pesticides, Raw materials, Tolerances, Tomatoes.

9791-69
TOLERANCES AND EXEMPTIONS FROM TOLERANCES FOR PESTICIDE CHEMICALS IN OR ON RAW AGRICULTURAL COMMODITIES. 2-(P-TERTBUTYLPHENOXY)CYCLOHEXYL 2-PROPYNYL SULFITE.
R E Duggan
Fed Regist 34(51):5291
15 Mar 1969 L1.451
Agricultural products, Apples, Butylphenoxy)cyclohexyl 2-propynyl sulfite, 2-(p-tert-, Chemicals, Insecticides, Peaches, Pears, Pesticide residues, Pesticides, Plums, Prunes, Public health, Raw materials, Sulfites, Tolerances.

9792-69
NOTICE OF FILING OF PETITION FOR FOOD ADDITIVE BUQUINOLATE.
R E Duggan
Fed Regist 34(25):1784
06 Feb 1969 L1.451
Buquinolate, Chickens, Drugs, Food additives, Meat, Pesticide residues.

9793-69
IDENTIFICATION AND QUANTITATIVE EVALUATION OF ANTIBIOTIC RESIDUES IN CHICKENS FED ON A SPIRAMYCIN DIET.
G R Jolles B I. Terlain
J Agr Food Chem 16(1,JAN-FEB):60-64
1968 381 J8223
Antibiotics, Chickens, Chromatography, Diet, Residues, Spiramycin, Streptomyces ambofaciens, Volumetric analysis.

9794-69
NOTICE OF WITHDRAWAL OF PETITION REGARDING PESTICIDES.
J K Kirk
Fed Regist 33(38):2623-2624
26 Feb 1969 L1.451
Agricultural products, Carbamates, Carbofuran, Insecticide residues, Pesticides, Raw materials, Regulation (pesticides).

9795-69
TOLERANCES AND EXEMPTIONS FROM TOLERANCES FOR PESTICIDE CHEMICALS IN OR ON RAW AGRICULTURAL COMMODITIES. 2-ETHYLAMINO-4-ISOPROPYLAMINO-6-METHYLTHIO-S-TRIAZINE.
J K Kirk
Fed Regist 34(38):2608
26 Feb 1969 L1.451
Agricultural products, Bananas, Chemicals, Ethylamino)-4-(isopropylamino)-6-(methylthio)-s-triazine, 2-, Pesticide residues, Pesticides, Pineapples, Potatoes, Raw materials, Sugarcane, Tolerances, Triazines, Tropical fruit.

9796-69
CONCENTRATION OF TWO 1,4-BENZOXAZINONES IN DENT CORN AT VARIOUS STAGES OF DEVELOPMENT OF THE PLANT AND ITS RELATION TO RESISTANCE OF THE HOST PLANT TO THE EUROPEAN CORN BORER.
J A Klun J F Robinson
J Econ Entomol 62(1):214-220 REF
17 Feb 1969 421 J822
Benzoxazinone compounds, Biochemistry, Corn, Insect pests, Insecticide residues, Methoxy-2-benzoxazolinone, 6-, Ostrinia nubilalis, Plant genetics, Plant morphology, Plant pest resistance.

9797-69
FOOD ADDITIVES PERMITTED IN FOOD FOR HUMAN CONSUMPTION. ADJUVANTS FOR PESTICIDE USE DILUTIONS.
H L Ley
Fed Regist 34(61):5930
29 Mar 1969 L1.451
Coconuts, Ethylene dichloride, Food additives, Food consumption, Pesticides, Regulation (pesticides), Residues.

9798-69
FATE OF C14-MALEIC HYDRAZIDE IN RATS.
D L Mays G S Born J E Christian B J Liska
J Agr Food Chem 16(2,MAR-APR):356-357
1968 381 J8223
Animal physiology, Biochemistry, Blood, Carbon compounds, Carbon isotopes, Feces, Maleic hydrazide, Rats, Tissues, Urine.

9799-69
EFFECT OF 2,4-D ON INCORPORATION OF 14C INTO URINARY METABOLITES FROM RATS RECEIVING 14C-LABELED ACETATE.
W W Phillco S C Fang
J Agr Food Chem 16(2,MAR-APR):358-360
1968 381 J8223
Acetates, Animal physiology, Biochemistry, Carbon isotopes, D, 2,4-, Metabolites, Rats, Urine.

9800-69
COLORIMETRIC METHODS FOR DETERMINATION OF SIMAZINE AND RELATED CHLORO-S-TRIAZINES.
M T H Ragab J P McCollum
J Agr Food Chem 16(2,MAR-APR):284-289 REF
1968 381 J8223
Chlorinated hydrocarbons, Colorimetry, Pesticide residues, Simazine, Triazines.

9801-69
INHIBITION OF BEEF LIVER HYDROLYTIC ENZYMES BY ORGANOPHOSPHORUS PESTICIDES. QUANTAL INHIBITION CHARACTERISTICS OF SEVERAL ORGANOPHOSPHORUS COMPOUNDS, USING O-NITROPHENYL BUTYRATE AS SUBSTRATE.
D C Villeneuve W P McKinley
J Agr Food Chem 16(2,MAR-APR):290-294 REF
1968 381 J8223
Cattle, Enzymes, Hydrolysis, Inhibitors, Liver, Nitrogen compounds, Nitrophenyl butyrate, o-, Organophosphorus compounds, Pesticide residues, Substrates.

9802-69
CHROMATOGRAPHIC DETERMINATION OF 4-TRIFLUOROMETHYL-2,4-DINITRODIPHENYL ETHER RESIDUES IN SOYBEANS.
J P Walter M L Kerchersid M G Merkle
J Agr Food Chem 16(1,JAN-FEB):143-144
1968 381 J8223
Chromatography, Ethers, Herbicides, Pesticide residues, Soybeans, Trifluoromethyl-2,4-dinitrodiphenyl ether, 4-.

TOXICOLOGY

9803-69
STUDIES WITH CALCIUM ETHYLENEDIAMINETETRAACETATE IN CALVES; TOXICITY AND USE IN BOVINE LEAD POISONING.
A L Aronson P B Hammond A C Strafuss
Toxicol Appl Pharmacol 12(3):337-349 REF
May 1968 391.8 T662
Blood plasma, Calcium ethylenediaminetetraacetate, Cattle, Dosage, Drug therapy, Lead poisoning, Metabolism, Toxicology, Urine.

9804-69
MCD-PEPTIDE FROM BEE VENOM: ISOLATION, BIOCHEMICAL AND PHARMACOLOGICAL PROPERTIES. (GE)
H Breithaupt E Habermann
Naunyn-Schmiedebergs Arch Pharmakol Exp Pathol 261(3):252-270 REF
30 Sep 1968 448.8 AR2
Bee venom, Biochemistry, Blood pressure, Capillaries, Cells, Chromatography, Histamine, Peptides, Permeability, Pharmacology, Rats, Surface-active agents, Tissues. English summary.

9805-69
ORGANOPHOSPHORUS POISONING. SOME PROPERTIES OF AVIAN ESTERASES.
P J Bunyan D M Jennings A Taylor
J Agr Food Chem 16(2,MAR-APR):326-331 REF
1968 381 J8223
Esterases, Organophosphorus compounds, Pheasants, Phorate, Pigeons, Properties, Toxicology.

9806-69
ORGANOPHOSPHORUS POISONING. DIAGNOSIS OF POISONING IN PHEASANTS OWING TO A NUMBER OF COMMON PESTICIDES.
P J Bunyan D M Jennings A Taylor
J Agr Food Chem 16(2,MAR-APR):332-339 REF
1968 381 J8223
Azinphosmethyl, Chlorfenvinphos, Diagnosis, Diazinon, Dimethoate, Ethion, Methyl demeton, Organophosphorus compounds, Pesticides, Pheasants, Toxicology.

9807-69
EFFECT OF O,P'-DDD AND METYRAPONE (SU-4885) ON DEVELOPMENT OF RENAL HYPERTENSION IN RATS.
M J Fregly
Toxicol Appl Pharmacol 12(3):548-559 REF
May 1968 391.8 T662
Biochemistry, Dichloro-2-(o-chlorophenyl)-2-(p-chlorophenyl)ethane, 1,1-, Diet, Dosage, Hypertension, Hypertrophy, Kidneys, Laboratory animals, Metyrapone, Rats, Toxicology.

9808-69
STUDIES ON THE ACTION OF HIGH CONCENTRATIONS OF ALKYLPOLYGLYCOL ETHERS ON FISH. (GE)
C Gloxhuber W K Fischer
Food Cosmet Toxicol 6(4):469-477 REF
Dec 1968 391.8 F73
Absorption, Detergents, Fish, Lethal factor, Toxicology. English and French summaries.

9809-69
ENVENOMATION BY THE SPIDERS CHIRACANTHIUM INCLUSUM AND ARGIOPE AURANTIA.
J R Gorham T B Rhency
Jama (J Amer Med Ass) 206(9):1958-1962 MAP REF
25 Nov 1968 448.9 AM37
Arachnida, Argiope aurantia, Chiracanthium inclusum, Drug therapy, Epidemiology, Public health, Spider venom, Spiders, Zoogeography.

9810-69
ACUTE AND SUBCHRONIC TOXICITY OF A NEW FLUORINE PESTICIDE, N-METHYL-N-(1-NAPHTHYL) FLUOROACETAMIDE.
Y Hashimoto T Makita H Miyata T Noguchi G Ohta
Toxicol Appl Pharmacol 12(3):536-547
May 1968 391.8 T662
Acaricides, Animal physiology, Dosage, Fluorine, Fluoro-N-methyl-N-(1-naphthyl)acetamide, 2-, Insecticides, Laboratory animals, Toxicology.

9811-69
STIMULATION OF HEPATIC MICROSOMAL DRUG-METABOLIZING ENZYMES BY ALPHA,ALPHA-BIS-(P-CHLOROPHENYL)-3-PYRIDINEMETHANOL AND A METHOD FOR DETERMINING NO-EFFECT LEVELS IN RATS.
D G Hoffman H M Worth R C Anderson
Toxicol Appl Pharmacol 12(3):464-472 REF
May 1968 391.8 T662
Animal physiology, Bis(p-chlorophenyl)-3-pyridinemethanol, alpha,alpha-, Diet, Dosage, Drugs, EPN, Enzymes, Metabolism, Nitroanisole, p-, Organophosphorus compounds, Rats, Statistical analysis, Toxicology.

9812-69
STUDIES ON LABELED ANIMAL POISONS. II. DISTRIBUTION OF THE VENOMS OF VARIOUS SPIDERS LABELED WITH SE75 AND P32 IN THE GUINEA PIG.
D Lebez Z Maretic F Gubensek J Kristan
Toxicon 5(4):261-262
May 1968 391.8 T66

Electrophoresis, Guinea pigs, Isotopes, Latrodectus mactans, Phosphorus, Physiology, Radioactivity, Selenium, Spiders, Steatoda paykulliana, Venoms.

9813-69
EQUI-THESIN, GENERAL ANESTHETIC. DRUGS FOR VETERINARY USE; DRUG EFFICACY STUDY IMPLEMENTATION.
H L Ley
Fed Regist 34(43):3861
05 Mar 1969 L1.451
Accident prevention, Anesthetics, Cattle, Chloral hydrate, Dosage, Drug therapy, Horses, Magnesium sulfate, Pentoharbital.

9814-69
PRELIMINARY STUDIES ON TOXICITY OF RONNEL-DOW ET 57 IN SHEEP.
A Malaki A Jilek
Mysore J Agr Sci 2(1):56-58
1968 S19.M9
Drug therapy, Hypoderma, Ronnel, Sheep, Systemic insecticides, Toxicity.

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Aflatoxin, Biological assay, Methodology, Milk.

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PRELIMINARY STUDIES ON VENOM FROM THE BROWN RECLUSE SPIDER LOXOSCELES RECLUSA.
P N Morgan
Toxicon 6(3):161-165 REF
Feb 1969 391.8 T66
Guinea pigs, Loxosceles reclusa, Mice, Rabbits, Rats, Toxicology, Venoms.

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Vup Pitan 27(3,MAY-JUN):57-62 REF
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Amines, D, 2,4-, Hygiene, Phenoxy acid compounds, Salts, Toxicology.

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J Agr Food Chem 16(1,JAN-FEB):48-49
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Animal physiology, Dairy cattle, Diethyl phosphate, Dimethyl phosphate, Hydrolysis, Insecticides, Metabolites, Organophosphorus compounds, Thiophosphates, Urine.

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Vet Med/small Anim Clin 63(10):986
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Anthelmintics, Cattle, Dosage, Drug therapy, Helminthiasis, Oesophagostomum, Onchocerca gibsoni, Parasitism, Stomach, Tetramisole, Thiazolyl)-henzimidizole, 2-(4-, Toxicology.

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D J Sullivan T P McDonald M C Bell
Cornell Vet 59(2):236-249 REF
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Animal physiology, Bone marrow, Cerium isotopes, Injections, Radiation, Radioisotopes, Sheep, Soil contamination, Toxicology.

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I H Wiese N C J Basson
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R van der Veen
Acta Bot Neer 17(5):373-376
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A I Allam P E Schilling J B Sinclair
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Feb 1969 464.8 P56
Chemical control (plant diseases), Cottonseed, Dihydro-5-carboxanilido-6-methyl-1,4-oxathiin, 2,3-, Dosage, Fungicides, Fungus diseases (plants), Plant translocation, Rhizoctonia solani, Seed germination, Seed treatment, Systemic fungicides.

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K Apparao D M Gopinath
Can J Genet Cytol 10(4):782-787
Dec 1968 443.8 C16
Biosynthesis, Chromosomes, Colchicine, Nicotiana forgetiana, Nicotiana glauca, Nicotiana longiflora, Plant breeding, Plant morphology, Plant mutation.

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M E Bauer T G Sherbeck A J Ohlrogge
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Aug 1969 4 AM34P
Plant growth regulator, Plant morphology, Soybeans, Triiodobenzoic acid, 2,3,5-.

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B Das A C Vig D R Bhumbla
Prog Farming 5(1):33-39
Mar 1968 S19.P8
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L D Dunkle R Maheshwari P J Allen
Science 163(3866):481-482 REF
31 Jan 1969 470 SCI2
Fungus diseases (plants), Heat, Plant physiology, Proteins, Puccinia graminis tritici, Ribonucleic acid, Rust, Synthesis, Uredinales.

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T J Facteau
Diss Abstr Sect B 29(3):820B
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Biochemistry, Iodoacetic acid, Leaves, Oranges, Plant metabolism, Plant physiology, Radioactive tracers.

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D T Gibson J R Koch C L Schuld R E Kallio
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Biochemistry, Enzymes, Glycols, Hydrocarbons, Mammals, Metabolism, Microorganisms, Oxidation, Plant physiology, Pseudomonas putida, Toluene.

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P Hanchey H Wheeler
Can J Bot 47(5):675-678 REF
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Electron microscopy, Plant physiology, Plasmolysis, Tissues.

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OZONE. EFFECT ON APPARENT PHOTOSYNTHESIS, RATE OF TRANSPIRATION, AND STOMATAL CLOSURE IN PLANTS.
A C Hill N Littlefield
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Air pollution, Ozone, Photosynthesis, Plant growth inhibitors, Plant physiology, Plant transpiration, Stomata.

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Barley, Chromatography, Mosaic, Plant biochemistry, Ribonucleic acid, Virus diseases (plants).

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Y Komoda Y Isogai T Okamoto
Tokyo Univ Coll Gen Educ Sci Pap 18(2):221-230
Dec 1968 330.9 T572
Biological assay, Gibberellins, Peas, Plant extracts, Plant regulators.

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K H Kwong Y M Chiu
J Hort Soc China 14(1-2):35-48
Apr 1968 80 C47
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W E McKeen R Smith P K Bhattacharya
Can J Bot 47(5):701-706 REF
May 1969 470 C16C
Carbohydrates, Erysiphe cichoraceae rum, Erysiphe graminis, Erysiphe polygoni, Fungus cultures, Plant extracts, Plant physiology, Plant tissues, Powdery mildew, Sphaerotheca macularis.

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EFFECT OF INHIBITORS OF NUCLEIC ACID AND PROTEIN SYNTHESIS ON THE REAPPEARANCE OF LIGHT INTERRUPTION RHYTHM IN A LONG-DAY DUCKWEEP, LEMNA GIBBA G3.
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Deoxyribonucleic acid, Inhibitors, Lemna gibba, Photoperiodism, Plant biochemistry, Proteins, Synthesis, Weed control.

9839-69
EFFECT OF TIME OF APPLICATION OF GIBBERELLIC ACID AND PARACHLOROPHENOXYACETIC ACID ON BERRY AND BUNCH WEIGHT, YIELD AND SEEDLESSNESS IN GRAPE (VAR. ANAB-E-SHAHI).
G S Nijjar G G Bhatia
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Mar 1968 S19.P8
Chlorophenoxyacetic acid, p-, Crop yields, Dosage, Fruit culture, Gibberellic acid, Grapes, Plant biochemistry, Plant physiology, Plant regulators, Seeds, Time.

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N H Poonawalla F Korte
J Agr Food Chem 16(1,JAN-FEB):15-16 REF
1968 381 J8223
Aspergillus niger, Biochemistry, Carbon isotopes, Dihydroheptachlor, beta-, Heptachlor, Metabolism, Microorganisms, Penicillium urticae, Plant physiology, Soils.

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EFFECTS OF SUCCINIC ACID 2,2-DIMETHYL HYDRAZIDE AND (2-CHLOROETHYL) TRIMETHYLAMMONIUM CHLORIDE ON TOMATOES (LYCOPERSICON ESCULENTUM MILL.) AND ON TUBEROUS ROOT FORMATION IN DAHLIA PINNATA CAV.
P E Read
Diss Abstr Sect B 29(3):838B-839B
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Biochemistry, Chlorocthyl)trimcthylammonium chloride, (2-, Crop yields, Dahlia pinnata, Plant growth inhibitors, Plant morphology, Succinic acid, 2,2-dimethylhydrazide, Tomatoes.

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STRUCTURE DETERMINATION OF SOME METABOLITES OF FUSARIUM CULMORUM.
K J Schilling
Diss Abstr Sect B 29(3):948B
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Acids, Chemical structure, Fungi, Fusarium culmorum, Metabolites, Plant metabolism, Stereochemistry.

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GIBBERELLIN-LIKE SUBSTANCES IN ROOT EXUDATE OF VITIS VINIFERA.
K G M Skene
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07 Apr 1967 450 P693
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Abstact: Calculations on the rate of gibberellin movement from the roots seemed to be compatible with levels of activity in the leaves. The levels of gibberellin-like activity in the root exudate were examined by barley endosperm assay and compared with levels determined for other parts of the plant.

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H Steiner
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Acaricides, Biocenosis, Fruit culture, Fungicides, Insecticides, Plant protection, Spraying. English summary. discussion of the suitability of 10 insecticides, 3 acaricides and 9 fungicides.

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E E M Taha A A Abuzied
Zeitsch Allg Mikrobiol 3(4):275-281
1963 QR1.Z4
Cellulose, Culture media, Decomposition, Fungi, Helminthosporium cyclops, Humidity, Hydrogenion concentration, Penicillium oxalicum, Plant physiology, Temperature.

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RECOMMENDED ANALYTICAL METHODS FOR PESTICIDES. 38. TEST FOR EMULSION CHARACTERISTICS OF EMULSIFIABLE CONCENTRATES.
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China Plant Protect Bull 16(4):67-68
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Emulsions, Methodology, Pesticide analysis.

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N P Bhargava R Lakhan
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Bactericides, Chemicals, Culture media, Guanidine compounds, Mycobacterium tuberculosis, Synthesis, Tuberculosis vaccines.

9848-69
EFFECT OF ANTISERUM TO E. COLI DNA POLYMERASE ON SYNTHESIS OF PHI CHI 174 DNA EXTRACTS OF PHI CHI INFECTED CELLS.
D T Denhardt
Nature 220(5163):131-134
12 Oct 1968 472 N21
Antiserum, Bacteria, Breeding, Cells, Chemical reactions, Deoxyribonucleic acid, Enzymes, Escherichia coli, Extracts, Lysates, Polymers, Reproduction, Sedimentation, Synthesis.

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BROMODICHLOROACETANILIDES AS FUNGICIDES AND NEMATOCIDES. PATENT 3,450,822.
E E Gilbert
Us Patent Office Offic Gaz 863(3):903
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Acetanilide, Fungicides, Nematocides, Patents.

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H Hughes I Bazant J R Brown
Can J Public Health 60(1):41-42
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Biosynthesis, Bis(p-chlorophenyl) acetic acid, Chlorinated hydrocarbons, Degradation, Dichloro-2,2-bis(p-chlorophenyl) ethylene, 1,1-, Dicofol, Pesticides, Porphyrins, TDE.

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T Jojima K Oyamada S Tamura
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Chemical control (weeds), Chemical reactions, Chemistry, Herbicides, Pyridazine compounds, Synthesis.

9852-69
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Analeptics, Benzamide, Chemical structure, Elements, Patents, Pharmacology.

9853-69
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P H Martens R Caussin
Bull Recherch Agron Gembloux (N s)3(1):173-181
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P Nangniot
Bull Recherch Agron Gembloux (N s)3(1):182-189
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Carbaryl, Dosage, Fungicides, Insecticides, Polarography.

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DETERMINATION OF TERBACIL RESIDUES USING MICROCOULOMETRIC GAS CHROMATOGRAPHY.
H L Pease
J Agr Food Chem 16(1,JAN-FEB):54-56
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Animals, Bromacil, Chromatography, Coulometers, Gases, Pesticide residues, Plants, Soils, Temperature, Terbacil.

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H Tolkmith H O Senkbeil
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V F Verdi
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E Wagner
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Analeptics, Bactericides, Dicarboximide compounds, Drugs, Patents.

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I Yamamoto J E Casida
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A SHORT SURVEY OF THE PLANT PROTECTION EQUIPMENT, APPROVED DURING 1966. (GE)
W Zislavsky
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MID-STATE OF NEBRASKA: THERE'S NO MAGIC IN PEST CONTROL .
Anonymous
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THE BACTERIOLOGICAL SUPERVISION OF EGG PRODUCTION IN THE FEDERAL REPUBLIC OF GERMANY. (GE)
E Bulling
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Apr 1968 41.8 L49
Eggs, Enterobacteriaceae, Legislation, Pasteurization, Poultry products, Salmonella.

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E Martens
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Cattle, Food contamination, Infectious diseases, Legislation, Meat inspection, Salmonella, Slaughtering.

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G H Wise
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ABSORPTION
Serological study on barley stripe mosaic virus protein polymerization. I. Immunodiffusion, immunoelectrophoretic characteristics, and absorption experiments.
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Crop seedling uptake of DDT, dieldrin, endrin, and heptachlor from soils.
9663

Absorption and metabolism of antimycin administered with a rat diet.
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Studies on the action of high concentrations of alkylpolyglycol ethers on fish.
9808

ACANTHOCERA
Ochodaeinae and Acanthocerinae from the faunistic region of Ethiopia and Madagascar. (Coleoptera Scarabaeidae).
9310

ACANTHOSCELIDES OBTECTUS
The influence of nutrition on the fertility and longevity of the bean weevil (Acanthoscelides obtectus Say).
9494

ACARICIDES
Acute and subchronic toxicity of a new fluorine pesticide, N-methyl-N-(1-naphthyl) fluoroacetamide.
9810

The influence of insecticides, acaricides and fungicides on the biocenosis of fruit cultures.
9844

ACARINA
A catalog of Hawaiian Acarina.
9284

Aspects of the relationship between burying beetles, Necrophorus ssp. and the mite, Poecilochirus necrophori Vitz.
9476

Pests and diseases of the date palm. Part I. Mites, insects and nematodes.
9626

A 10-year survey of Trinidadian arthropods for natural virus infections (1953--1963).
9758

ACAROPSIS AFRICANUS
Descriptions of some new cheyletid mites from the United Arab Republic. (Acarina: Cheyletidae).
9279

ACARUS SIRO
Bionomics of Androlaelaps casalis (Berlese) (Acarina: Laelapidae) a predator of mite pests of stored cereals.
9778

ACCIDENT PREVENTION
1968 cranberry insect and disease control chart.
9557

Equi-Thesin, general anesthetic. Drugs for veterinary use; drug efficacy study implementation.
9813

ACER SACCHARUM
Drepanaphis pallida, a new aphid collected on Acer saccharum in Ontario (Homoptera: Aphididae).
9314

ACERIA TULIPAE
The mite Aceria tulipae (Eriophyidae)--vector of the onion mosaic virus.
9641

ACETANILIDE
Bromodichloroacetanilides as fungicides and nematocides. Patent 3,450,822.
9849

ACETATES
Effect of 2,4-D on incorporation of 14C into urinary metabolites from rats receiving 14C-labeled acetate.
9799

ACETAZOLAMIDE
Acetazolamide. Drugs for veterinary use; drug efficacy study implementation.
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ACHROMOBACTER
The isolation of Bacterium anitratum (Acinetobacter anitratus) and Mima polymorpha (Acinetobacter iwoffi) from animals in Uganda.
9747

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Results of the zoological research of Dr. Z. Kaszab in Mongolia. No. 163: Homoptera, Auchenorrhyncha.
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ACID PHOSPHATASE
Fine structural localization of acid phosphatase and aryl sulfatase activities in the intermediate layer of Hymenolepis diminuta cysticercoids.
9763

ACIDS
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ACRIDIDAE
A hymenopterous primary parasite of morabine grasshoppers.
9262

The laboratory breeding and embryonic development of Chorthippus brunneus Thunberg (Orthoptera: Acrididae).
9432

Food preference as a factor in distribution and abundance of Phoetaliotes nebrascensis.
9454

ACRIDOIDEA
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ACROTELSA COLLARIS
The mode of feeding in the silverfish Acrotelsa collaris (F.) (Thysanura: Lepismatidae).
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ADELGES
Parathion and lindane in the control of the spruce gall aphid.
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ADENINE NUCLEOTIDES
Mutations of the western equine encephalomyelitis virus (WEE) induced by chemical mutagens.
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ADVERTISING
Mid-state of Nebraska: There's no magic in pest control.
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AEDES
The Aedes mosquitoes of New England (Diptera: Culicidae). II. Larvae: Keys to instars, and to species exclusive of first instar.
9321

Studies on longevity of adult Eretmapodites chrysogaster, Aedes togoi and Aedes (Stegomyia) Albopictus females Diptera: Culicidae).
9406

AEDES AEGYPTI
The neurosecretory cells of the brain of Aedes aegypti in relation to larval molt, metamorphosis and ovarian development.
9413

The myoblastic masses and neural tissue associated with the proventriculus of larvae of Aedes triseriatus, A. aegypti, and Anopheles quadrimaculatus.
9460

The assay of gonadotropic effect of juvenile hormone on Aedes aegypti ovaries.
9468

The role of the amphinucleolus in meiosis and pole plasm development of Aedes aegypti.
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AEDES AFRICANUS
Studies on yellow fever in Ethiopia. 5. Isolation of virus strains from arthropod vectors.
9524

AEDES DENTATUS
Studies on yellow fever in Ethiopia. 5. Isolation of virus strains from arthropod vectors.
9524

AEDES SOLLICITANS
Determination of mosquito hosts in salt marsh areas of Louisiana.
9318

AEDES TAENIORHYNCHUS
Progress report of low-volume aerial spray tests against adults of Aedes taeniorhynchus (Weid.) and Culex nigripalpus Theob.
9523

AEDES TRISERIATUS
The myoblastic masses and neural tissue associated with the proventriculus of larvae of Aedes triseriatus, A. aegypti, and Anopheles quadrimaculatus.
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Aflatoxin-producing potential of fungi isolated from cured and aged meats.
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Agglutinating antigen from an ornithosis agent. II. modification of antigen preparation and test procedure.
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Tularemia in the wildlife of Arkansas.
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Height preferences for oviposition of aphidophagous Syrphidae (Diptera).
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Aflatoxin-producing potential of fungi isolated from cured and aged meats.
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Shearing by drug.
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The economic and horticultural aspects of growing macadamia nuts commercially in Hawaii.
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AGRICULTURAL PRODUCTS
Tolerances and exemptions from tolerances for pesticide chemicals in or on raw agricultural commodities. O,O-diethyl O-(2-isopropyl-4-methyl-6-pyrimidinyl) phosphorothioate.
9532

Notice of filing of petition regarding pesticide chemicals.
9786

Notice of filing of petition regarding pesticide chemicals.
9788

Tolerances and exemptions from tolerances for pesticide chemicals in or on raw agricultural commodities. Norea.
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Tolerances and exemptions from tolerances for pesticide chemicals in or on raw agricultural commodities. O,O-dimethyl S-(4-oxo-1,2,3-

benzotriazin-3(4H)-ylmethyl) phosphorodithioate.
9790

Tolerances and exemptions from tolerances for pesticide chemicals in or on raw agricultural commodities. 2-(p-tertbutylphenoxy)cyclohexyl 2-propynyl sulfite.
9791

Notice of withdrawal of petition regarding pesticides.
9794

Tolerances and exemptions from tolerances for pesticide chemicals in or on raw agricultural commodities. 2-ethylamino-4-isopropylamino-6-methylthio-s-triazine.
9795

AGRILUS HYPERICI
The status of biological control of the weed Hypericum perforatum in British Columbia.
9667

AGROBACTERIUM TUMEFACIENS
Advances in morphogenesis. (Morphogenesis of crown gall, by S. Kupila-Ahvenniemi).
9538

AGROPYRON REPENS
Casoron--a new weed killer to protect woody plants.
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